Profile on Environmental and Social Considerations in Philippines

ANNEX

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IUCN Red List of the Philippines ,2007

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#	Scientific Name	Common Name	Category
Mammals			
1	*Acerodon jubatus*	GOLDEN-CAPPED FRUIT BAT	EN
2	*Acerodon leucotis*	PALAWAN FRUIT BAT	VU
3	*Alionycteris paucidentata*	MINDANAO PYGMY FRUIT BAT	VU
4	*Anonymomys mindorensis*	MINDORO CLIMBING RAT	VU
5	*Apomys sacobianus*	LONG-NOSED LUZON FOREST MOUSE	VU
6	*Apomys gracilirostris*	LARGE MINDORO FOREST MOUSE	VU
7	*Archboldomys luzonensis*	MT ISAROG SHREW-MOUSE	EN
8	*Axis calamianensis*	CALAMANIAN DEER	EN
9	*Bubalus mindorensis*	MINDORO DWARF BUFFALO	CR
10	*Cervus alfredi*	PHILLIPINE SPOTTED DEER	EN
11	*Chrotomys gonzalesi*	ISAROG STRIPED SHREW-RAT,	CR
12	*Chrotomys whiteheadi*	LUZON STRIPED RAT	VU
13	*Crateromys australis*	DINAGAT BUSHY-TAILED CLOUD RAT	EN
14	*Crateromys schadenbergi*	GIANT BUSHY-TAILED CLOUD RAT	VU
15	*Crateromys paulus*	OILIN BUSHY-TAILED CLOUD RAT	CR
16	*Crateromys heaneyi*	PANAY BUSHY-TAILED CLOUD RAT	EN
17	*Crocidura beatus*	MINDANAO SHREW	VU
18	*Crocidura grandis*	MT. MALINDANG SHREW	EN
19	*Crocidura grayi*	LUZON SHREW	VU
20	*Crocidura mindorus*	MINDANAO SHREW	EN
21	*Crocidura negrina*	NEGROS SHREW	CR
22	*Crocidura palawanensis*	PALAWAN SHREW	VU
23	*Crunomys fallax*	NORTHERN LUZON SHREW RAT	CR
24	*Cynocephalus volans*	PHILIPPINE FLYING LEMUR	VU
25	*Dobsonia chapmani*	NEGROS NAKED-BACKED FRUIT BAT	CR
26	*Dugong dugon*	DGONG	VU
27	*Haeromys pusillus*	LESSER RANEE MOUSE	VU
28	*Haplonycteris fischeri*	FISCHER'S PYGMY FRUIT BAT	VU
29	*Mydaus marchei*	PALAWAN STINK BADGER	VU
30	*Nyctimene rabori*	PHILIPPINE TUBE-NOSED FRUIT BAT	CR
31	*Otopteropus cartilagonodus*	LUZON FRUIT BAT	VU
32	*Palawanomys furvus*	PALAWAN SOFT-FURRED MOUNTAIN RAT	EN
33	*Phloeomys cumingi*	SOUTHERN GIANT SLENDER-TAILED CLOUD RAT	VU
34	*Podogymnura truei*	MINDANAO GYMNURE, MINDANAO MOONRAT	EN
35	*Podogymnura aureospinula*	DINAGAT MOONRAT	EN
36	*Pteropus leucopterus*	WHITE-WINGED FLYING FOX	EN
37	*Pteropus pumilus*	LITTLE GOLDEN-MANTLED FLYING FOX	VU
38	*Pteropus speciosus*	PHILIPPINE GRAY FLYING FOX	VU
39	*Rattus tawitawiensis*	TAWI-TAWI FOREST RAT	VU
40	*Rattus mindorensis*	MINDORO BLACK RAT	VU
41	*Rhinolophus subrufus*	SMALL RUFOUS HORSESHOE BAT	VU
42	*Rhynchomys isarogensis*	ISAROG SHREW RAT	VU
43	*Sundasciurus juvencus*	NORTHERN PALAWAN TREE SQUIRREL	EN
44	*Sundasciurus rabori*	PALAWAN MONTANE SQUIRREL	VU
45	*Sundasciurus samarensis*	SAMAR SQUIRREL	VU
46	*Sus cebifrons*	VISAYAN WARTY PIG	CR
47	*Sus philippensis*	PHILIPPINE WARTY PIG	VU
48	*Tarsomys echinatus*	SPINY LONG-FOOTED RAT	VU
49	*Tryphomys adustus*	LUZON SHORT-NOSED RAT	VU

#	Scientific Name	Common Name	Category
50	*Tupaia palawanensis*	PALAWAN TREE SHREW	VU
51	*Urogale everetti*	MINDANAO TREE SHREW	VU
Birds			
1	*Aceros waldeni*	VISAYAN WRINKLED HORNBILL	CR
2	*Acrocephalus sorghophilus*	STREAKED REED-WARBLER	VU
3	*Actenoides hombroni*	BLUE-CAPPED KINGFISHER	VU
4	*Alcedo argentata*	SILVERY KINGFISHER	VU
5	*Anas luzonica*	PHILIPPINE DUCK	VU
6	*Anthracoceros marchei*	PALAWAN HORNBILL	VU
7	*Anthracoceros montani*	SULU HORNBILL	CR
8	*Bubo philippensis*	PHILIPPINE EAGLE-OWL	VU
9	*Cacatua haematuropygia*	PHILIPPINE COCKATOO	CR
10	*Centropus steerii*	BLACK-HOODED COUCAL	CR
11	*Ceyx melanurus*	PHILIPPINE DWARF KINGFISHER	VU
12	*Chloropsis flavipennis*	PHILIPPINE LEAFBIRD	VU
13	*Copsychus cebuensis*	BLACK SHAMA	EN
14	*Coracina mindanensis*	BLACK-BIBBED CICADABIRD	VU
15	*Coracina ostenta*	WHITE-WINGED CUCKOO-SHRIKE	VU
16	*Dasycrotapha speciosa*	FLAME-TEMPLED BABBLER	EN
17	*Dendrocopos ramsayi*	SULU WOODPECKER	VU
18	*Dicaeum haematostictum*	VISAYAN FLOWERPECKER	VU
19	*Dicaeum quadricolor*	CEBU FLOWERPECKER	CR
20	*Dicaeum retrocinctum*	SCARLET-COLLARED FLOWERPECKER	VU
21	*Ducula carola*	SPOTTED IMPERIAL-PIGEON	VU
22	*Ducula mindorensis*	MINDORO IMPERIAL-PIGEON	VU
23	*Ducula pickeringii*	GREY IMPERIAL-PIGEON	VU
24	*Egretta eulophotes*	CHINESE EGRET	VU
25	*Emberiza sulphurata*	YELLOW BUNTING	VU
26	*Erythrura viridifacies*	GREEN-FACED PARROTFINCH	VU
27	*Eurylaimus samarensis*	VISAYAN BROADBILL	VU
28	*Eurylaimus steerii*	MINDANAO BROADBILL	VU
29	*Eurynorhynchus pygmeus*	SPOON-BILLED SANDPIPER	EN
30	*Ficedula basilanica*	LITTLE SLATY FLYCATCHER	VU
31	*Ficedula platenae*	PALAWAN FLYCATCHER	VU
32	*Gallicolumba crinigera*	MINDANAO BLEEDING-HEART	VU
33	*Gallicolumba keayi*	NEGROS BLEEDING-HEART	CR
34	*Gallicolumba menagei*	SULU BLEEDING-HEART	CR
35	*Gallicolumba platenae*	MINDORO BLEEDING-HEART	CR
36	*Gallirallus calayanensis*	CALAYAN RAIL	VU
37	*Gorsachius goisagi*	JAPANESE NIGHT-HERON	EN
38	*Grus antigone*	SARUS CRANE	VU
39	*Hypothymis coelestis*	CELESTIAL MONARCH	VU
40	*Ixos siquijorensis*	STREAK-BREASTED BULBUL	EN
41	*Mimizuku gurneyi*	GIANT SCOPS-OWL	VU
42	*Muscicapa randi*	ASHY-BREASTED FLYCATCHER	VU
43	*Oriolus isabellae*	ISABELA ORIOLE	CR
44	*Penelopides mindorensis*	MINDORO TARICTIC	EN
45	*Penelopides panini*	VISAYAN TARICTIC	EN
46	*Phapitreron brunneiceps*	MINDANAO BROWN-DOVE	VU
47	*Phapitreron cinereiceps*	TAWITAWI BROWN-DOVE	EN
48	*Phylloscopus ijimae*	IZU LEAF-WARBLER	VU

#	Scientific Name	Common Name	Category
49	*Pithecophaga jefferyi*	PHILIPPINE EAGLE	CR
50	*Pitta kochi*	WHISKERED PITTA	VU
51	*Pitta steerii*	AZURE-BREASTED PITTA	VU
52	*Polyplectron napoleonis*	PALAWAN PEACOCK-PHEASANT	VU
53	*Prioniturus luconensis*	GREEN RACQUET-TAIL	VU
54	*Prioniturus platenae*	BLUE-HEADED RACQUET-TAIL	VU
55	*Prioniturus verticalis*	BLUE-WINGED RACQUET-TAIL	EN
56	*Ptilinopus arcanus*	NEGROS FRUIT-DOVE	CR
57	*Ptilinopus marchei*	FLAME-BREASTED FRUIT-DOVE	VU
58	*Ptilocichla falcate*	FALCATED WREN-BABBLER	VU
59	*Rhinomyias albigularis*	WHITE-THROATED JUNGLE-FLYCATCHER	EN
60	*Rhinomyias insignis*	WHITE-BROWED JUNGLE-FLYCATCHER	VU
61	*Rhyacornis bicolor*	LUZON WATER-REDSTART	VU
62	*Spizaetus philippensis*	PHILIPPINE HAWK-EAGLE	VU
63	*Stachyris nigrorum*	NEGROS STRIPED-BABBLER	EN
64	*Sterna bernsteini*	CHINESE CRESTED-TERN	CR
65	*Todiramphus winchelli*	RUFOUS-LORED KINGFISHER	VU
66	*Tringa guttifer*	SPOTTED GREENSHANK	EN
67	*Zoothera cinerea*	ASHY THRUSH	VU
Reptiles			
1	*Caretta caretta*	LOGGERHEAD	EN
2	*Chelonia mydas*	GREEN TURTLE	EN
3	*Crocodylus mindorensis*	PHILIPPINES CROCODILE	CR
4	*Eretmochelys imbricata*	HAWKSBILL TURTLE	CR
5	*Heosemys spinosa*	SPINY TERRAPIN, SPINY TURTLE	EN
6	*Lepidochelys olivacea*	OLIVE RIDLEY, PACIFIC RIDLEY	EN
7	*Pelochelys cantorii*	CANTOR'S GIANT SOFTSHELL	EN
8	*Varanus olivaceus*	GRAY'S MONITOR	VU
9	*Siebenrockiella leytensis*	PHILIPPINE POND TURTLE	CR
Amphibians			
1	*Platymantis insulata*	ISLAND FOREST FROG	CR
2	*Platymantis spelaea*	NEGROS CAVE FROG	EN
3	*Platymantis banahao*	BANAHAO FOREST FROG	VU
4	*Platymantis cornuta*	HORNED FOREST FROG	VU
5	*Platymantis hazelae*	HAZEL'S FOREST FROG	EN
6	*Platymantis levigata*	SMOOTH-SKINNED FOREST FROG	EN
7	*Platymantis negrosensis*	NEGROS FOREST FROG	EN
8	*Platymantis panayensis*	PANAY FOREST FROG	EN
9	*Platymantis polillensis*	POLILLO FOREST FROG	EN
10	*Platymantis rabori*	RABOR'S FOREST FROG	VU
11	*Platymantis subterrestris*	MT. DATA FOREST FROG	EN
12	*Barbourula busuangensis*	PHILIPPINE DISCOGLOSSID FROG	VU
13	*Nyctixalus spinosus*	SPINY TREE FROG	VU
14	*Philautus leitensis*	LEYTE TREE FROG	VU
15	*Philautus schmackeri*	MINDORO TREE FROG	EN
16	*Platymantis pygmaea*	PYGMY FOREST FROG	VU
17	*Platymantis naomiae*	NAOMI'S FOREST FROG	VU
18	*Pelophryne albotaeniata*	PALAWAN TOADLET	EN
19	*Platymantis isarog*	ISAROG FOREST FROG	VU
20	*Philautus poecilius*	MOTTLED TREE FROG	VU
21	*Limnonectes diuatus*	EASTERN MINDANAO FROG,	VU

#	Scientific Name	Common Name	Category
22	*Occidozyga diminutivus*	SMALL-HEADED FROG	VU
23	*Limnonectes visayanus*	GIANT VISAYAN FROG	VU
24	*Limnonectes parvus*	PHILIPPINE SMALL-DISKED FROG	VU
25	*Ansonia mcgregori*		VU
26	*Ansonia muelleri*		VU
27	*Pelophryne lighti*		VU
28	*Megophrys ligayae*	PALAWAN HORNED FROG	EN
29	*Megophrys stejnegeri*	MINDANAO HORNED FROG	VU
30	*Kaloula kalingensis*	KALINGA NARROWMOUTH TOAD	VU
31	*Kaloula rigida*	LUZON NARROW-MOUTHED FROG	VU
32	*Oreophryne anulata*		VU
33	*Limnonectes acanthi*		VU
34	*Platymantis cagayanensis*		EN
35	*Platymantis guentheri*		VU
36	*Platymantis indeprensus*		VU
37	*Platymantis lawtoni*		EN
38	*Platymantis montana*		VU
39	*Platymantis pseudodorsalis*		VU
40	*Platymantis sierramadrensis*		VU
41	*Platymantis taylori*		EN
42	*Rana igorota*		VU
43	*Rana mangyanum*		EN
44	*Rana tipanan*		VU
45	*Philautus acutirostris*		VU
46	*Philautus surrufus*		EN
47	*Philautus worcesteri*		VU
48	*Rhacophorus bimaculatus*		VU
Insects			
1	*Atrophaneura atropos*		CR
2	*Atrophaneura schadenbergi*		VU
3	*Graphium idaeoides*		VU
4	*Graphium megaera*		VU
5	*Graphium sandawanum*	APO SWALLOWTAIL	EN
6	*Idea electra*	ELECTRA'S TREE-NYMPH	VU
7	*Papilio carolinensis*		VU
8	*Papilio chikae*	LUZON PEACOCK SWALLOWTAIL	EN
9	*Papilio osmana*		VU
10	*Parantica dannatti*	DANNATT'S TIGER	VU
11	*Parantica davidi*	DAVID'S TIGER	CR
12	*Parantica milagros*	MILAGROS' TIGER	EN
13	*Parantica phyle*	FELDER'S TIGER	VU
14	*Parantica schoenigi*	FATHER SCHOENIG'S CHOCOLATE	EN
15	*Rhinocypha hageni*		EN
16	*Rhinocypha latimacula*		CR
17	*Risiocnemis seidenschwarzi*		VU
Fishes			
1	*Aetomylaeus nichofii*	BANDED EAGLE RAY	VU
2	*Anoxypristis cuspidata*	KNIFETOOTH SAWFISH	CR
3	*Atherinomorus lineatus*	LINED SILVERSIDE	VU
4	*Bolbometopon muricatum*	BUMPHEAD PARROTFISH	VU
5	*Boroda expatria*		VU

#	Scientific Name	Common Name	Category
6	*Carcharhinus longimanus*	OCEANIC WHITETIP SHARK	VU
7	*Carcharias taurus*	GREY NURSE SHARK	VU
8	*Carcharodon carcharias*	GREAT WHITE SHARK	VU
9	*Centrophorus squamosus*	DEEPWATER SPINY DOGFISH	VU
10	*Cephalakompsus pachycheilus*		CR
11	*Cheilinus undulates*	GIANT WRASSE	EN
12	*Cromileptes altivelis*	BARAMUNDI COD	VU
13	*Epinephelus lanceolatus*	BRINDLE BASS	VU
14	*Hampala lopezi*		CR
15	*Helicostyla smargadina*		CR
16	*Hemipristis elongates*	FOSSIL SHARK	VU
17	*Hemitriakis leucoperiptera*	WHITEFIN TOPESHARK	EN
18	*Hippocampus kuda*	COMMON SEAHORSE	VU
19	*Hippocampus spinosissimus*	HEDGEHOG SEAHORSE	VU
20	*Hippocampus trimaculatus*	FLAT-FACED SEAHORSE	VU
21	*Hippocampus barbouri*	BARBOUR'S SEAHORSE	VU
22	*Hippocampus comes*	TIGER TAIL SEAHORSE	VU
23	*Mandibularca resinus*	BAGANGAN	CR
24	*Nebrius ferrugineus*	TAWNY NURSE SHARK	VU
25	*Ospatulus palaemophagus*		EN
26	*Ospatulus truncates*	BITUNGU	CR
27	*Pandaka pygmaea*	DWARF PYGMY GOBY	CR
28	*Plectropomus areolatus*	POLKADOT COD	VU
29	*Pristis microdon*	FRESHWATER SAWFISH	CR
30	*Puntius amarus*	PAIT	CR
31	*Puntius baoulan*	BAOLAN	CR
32	*Puntius clemensi*	BAGANGAN	CR
33	*Puntius disa*	DISA	CR
34	*Puntius flavifuscus*	KATAPA-TAPA	CR
35	*Puntius herrei*		CR
36	*Puntius katalo*	KATOLO	CR
37	*Puntius lanaoensis*	KANDAR	CR
38	*Puntius sirang*	SIRANG	VU
39	*Puntius tras*	TRAS	CR
40	*Puntius tumba*	TUMBA	VU
41	*Puntius lindog*	LINDOG	VU
42	*Puntius manalak*	MANALAK	CR
43	*Puntius hemictenus*		VU
44	*Puntius manguaoensis*		VU
45	*Rhina ancylostoma*	BOWMOUTH GUITARFISH	VU
46	*Rhincodon typus*	WHALE SHARK	VU
47	*Rhinobatos granulates*	SHARPNOSE GUITARFISH	VU
48	*Rhinoptera javanica*	FLAPNOSE RAY	VU
49	*Rhynchobatus australiae*	WHITE-SPOTTED GUITARFISH	VU
50	*Rhynchobatus sp. nov. B*	BROADNOSE WEDGEFISH	VU
51	*Scleropages formosus*	ASIAN AROWANA	EN
52	*Sicyopus axilimentus*		VU
53	*Sphyrna mokarran*	GREAT HAMMERHEAD	EN
54	*Spratellicypris palata*	PALATA	CR
55	*Stegostoma fasciatum*	LEOPARD SHARK	VU
56	*Stiphodon surrufus*		VU

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57	*Taeniura meyeni*	BLACK-BLOTCHED STINGRAY	VU
58	*Thunnus obesus*	BIGEYE TUNA	VU
59	*Urogymnus asperrimus*	PORCUPINE RAY	VU
Molluscs			
1	*Tridacna derasa*	SOUTHERN GIANT CLAM	VU
2	*Tridacna gigas*	GIANT CLAM	VU
3	*Helicostyla smargadina*		CR
Plants			
1	*Adenanthera intermedia*		VU
2	*Aerides lawrenciae*		EN
3	*Aerides leeanum*		VU
4	*Agathis philippinensis*		VU
5	*Aglaia angustifolia*		VU
6	*Aglaia aherniana*		VU
7	*Aglaia costata*		VU
8	*Aglaia cumingiana*		VU
9	*Aglaia pyriformis*		VU
10	*Aglaia smithii*		VU
11	*Alangium longiflorum*		VU
12	*Amesiella monticola*		CR
13	*Amesiella philippensis*		EN
14	*Anisoptera costata*		EN
15	*Antidesma obliquinervium*		VU
16	*Antidesma subolivaceum*		VU
17	*Aphanamixis cumingiana*		VU
18	*Aporusa elliptifolia*		VU
19	*Aquilaria cumingiana*		VU
20	*Aquilaria malaccensis*	AGARWOOD	VU
21	*Ardisia squamulosa*		VU
22	*Areca ipot*	IPOT PALM	VU
23	*Areca parens*		VU
24	*Areca whitfardii*		VU
25	*Arthrophyllum pulgarense*		VU
26	*Artocarpus blancoi*		VU
27	*Artocarpus rubrovenus*		VU
28	*Artocarpus treculianus*		VU
29	*Ascoglossum calopterum*		CR
30	*Baccaurea glabrifolia*		VU
31	*Baccaurea odoratissima*		VU
32	*Canarium ovatum*		VU
33	*Canarium luzonicum*		VU
34	*Celtis luzonica*		VU
35	*Ceratocentron fesselii*		CR
36	*Cinnamomum mercadoi*	CINAMOMON	VU
37	*Corypha microclada*		VU
38	*Cryptocarya elliptifolia*		CR
39	*Cryptocarya palawanensis*		EN
40	*Cycas chamberlainii*		EN
41	*Cynometra inaequifolia*		VU
42	*Dasymaschalon scandens*		VU
43	*Dendrobium sanderae*		VU

#	Scientific Name	Common Name	Category
44	*Dendrobium schuetzei*		CR
45	*Dillenia fischeri*		VU
46	*Dillenia luzoniensis*		VU
47	*Dillenia megalantha*		VU
48	*Dillenia philippinensis*		VU
49	*Dillenia reifferscheidtia*		VU
50	*Diospyros blancoi*		VU
51	*Diospyros philippinensis*		EN
52	*Diospyros pulgarensis*		VU
53	*Diplodiscus paniculatus*		VU
54	*Dipterocarpus alatus*		EN
55	*Dipterocarpus eurynchus*		CR
56	*Dipterocarpus gracilis*		CR
57	*Dipterocarpus grandiflorus*		CR
58	*Dipterocarpus hasseltii*		CR
59	*Dipterocarpus kerrii*		CR
60	*Dipterocarpus kunstleri*		CR
61	*Dipterocarpus validus*		CR
62	*Drepanolejeunea bakeri*		EN
63	*Drypetes palawanensis*		VU
64	*Dysoxylum angustifolium*		VU
65	*Dysoxylum palawanensis*		VU
66	*Dysoxylum turczaninowii*		VU
67	*Elaeocarpus dinagatensis*		VU
68	*Elaeocarpus gigantifolius*		VU
69	*Embolanthera spicata*		VU
70	*Epigeneium treacherianum*		VU
71	*Eusideroxylon zwageri*	BILLIAN, BORNEO IRONWOOD	VU
72	*Ficus ulmifolia*		VU
73	*Freycinetia auriculata*		VU
74	*Gastrochilus calceolaris*		CR
75	*Gloeocarpus patentivalvis*		EN
76	*Glyptopetalum palawanense*		VU
77	*Gongrospermum philippinense*		CR
78	*Guioa acuminata*		EN
79	*Guioa bicolor*		VU
80	*Guioa discolor*		EN
81	*Guioa myriadenia*		EN
82	*Guioa palawanica*		CR
83	*Guioa parvifoliola*		CR
84	*Guioa reticulata*		CR
85	*Guioa truncata*		EN
86	*Hopea acuminata*		CR
87	*Hopea basilanica*		CR
88	*Hopea brachyptera*		CR
89	*Hopea cagayanensis*		CR
90	*Hopea foxworthyi*		VU
91	*Hopea malibato*		CR
92	*Hopea mindanensis*		CR
93	*Hopea philippinensis*		CR
94	*Hopea plagata*		CR

#	Scientific Name	Common Name	Category
95	*Hopea quisumbingiana*		CR
96	*Hopea samarensis*		CR
97	*Horsfieldia ardisiifolia*		VU
98	*Horsfieldia obscurineria*		EN
99	*Horsfieldia samarensis*		VU
100	*Ilex palawanica*		VU
101	*Intsia acuminata*		VU
102	*Intsia bijuga*	BORNEO TEAK	VU
103	*Kibatalia elmeri*		VU
104	*Kibatalia gitingensis*		VU
105	*Kibatalia longifolia*		CR
106	*Kibatalia macgregori*		VU
107	*Kibatalia merrilliana*		VU
108	*Kibatalia puberula*		EN
109	*Kibatalia stenopetala*		EN
110	*Knema alvarezii*		VU
111	*Knema ridsdaleana*		VU
112	*Knema stenocarpa*		VU
113	*Lithocarpus ovalis*		VU
114	*Litsea leytensis*		VU
115	*Macaranga bicolor*		VU
116	*Macaranga grandifolia*		VU
117	*Macaranga caudatifolia*		VU
118	*Macaranga congestiflora*		VU
119	*Macarangagrandifolia*		VU
120	*Madhuca betis*		VU
121	*Madhuca oblongifolia*		VU
122	*Madhuca obovatifolia*		VU
123	*Mallotus odoratus*		VU
124	*Mangifera altissima*		VU
125	*Mangifera monandra*		EN
126	*Mastixia macrocarpa*		VU
127	*Merrilliobryum fabronioides*		EN
128	*Mitrephora caudata*		VU
129	*Mitrephora fragrans*		VU
130	*Mitrephora lanotan*		VU
131	*Myristica basilanica*		VU
132	*Myristica colinridsdalei*		VU
133	*Myristica frugifera*		VU
134	*Myristica longipetiolata*		VU
135	*Myristica philippensis*		VU
136	*Myristica pilosigemma*		VU
137	*Neolitsea vidalii*		VU
138	*Nepenthes argentii*		VU
139	*Nepenthes bellii*		EN
140	*Nepenthes merrilliana*		VU
141	*Nepenthes sibuyanensis*		VU
142	*Nepenthes truncata*		EN
143	*Oncosperma platyphyllum*		VU
144	*Orophea palawanensis*		VU
145	*Orophea submaculata*		VU

#	Scientific Name	Common Name	Category
146	*Palaquium bataanense*		VU
147	*Palaquium luzoniense*	RED NATO	VU
148	*Palaquium mindanaense*		VU
149	*Palaquium philippense*		VU
150	*Pandanus decipiens*		VU
151	*Paphiopedilum adductum*		CR
152	*Paphiopedilum ciliolare*		EN
153	*Paphiopedilum fowliei*		CR
154	*Paphiopedilum urbanianum*		CR
155	*Parashorea malaanonan*	WHITE LAUAN, WHITE SERAYA	CR
156	*Pericopsis mooniana*	NANDU WOOD, NEDUN TREE	VU
157	*Persea philippinensis*		VU
158	*Phalaenopsis lindenii*		EN
159	*Phalaenopsis micholitzii*		CR
160	*Pinus merkusii*	MERKUS PINE, MINDORO PINE	VU
161	*Podocarpus costalis*		EN
162	*Podocarpus lophatus*		VU
163	*Podocarpus palawanensis*		CR
164	*Polyalthia elmeri*		VU
165	*Polyalthia palawanensis*		VU
166	*Pouteria villamilii*	WHITE NATO	VU
167	*Protium connarifolium*		VU
168	*Prunus pulgarensis*		EN
169	*Prunus rubiginosa*		EN
170	*Prunus subglabra*		VU
171	*Pterocarpus indicus*	AMBOYNA WOOD	VU
172	*Reutealis trisperma*		VU
173	*Sandoricum vidalii*		VU
174	*Santalum album*	SANDALWOOD	VU
175	*Sapium luzonicum*		VU
176	*Schefflera agamae*		EN
177	*Schefflera albido-bracteata*		EN
178	*Schefflera curranii*		EN
179	*Schefflera palawanensis*		EN
180	*Securinega flexuosa*		VU
181	*Semecarpus paucinervius*		VU
182	*Shorea almon*	LIGHT RED MERANTI	CR
183	*Shorea astylosa*		CR
184	*Shorea contorta*	WHITE LAUAN	CR
185	*Shorea falciferoides*		CR
186	*Shorea guiso*		CR
187	*Shorea hopeifolia*	YELLOW MERANTI	CR
188	*Shorea malibato*		CR
189	*Shorea negrosensis*	RED LAUAN	CR
190	*Shorea ovata*	DARK RED MERANTI	EN
191	*Shorea palosapis*	PHILIPPINE MAHOGANY,	CR
192	*Shorea polysperma*		CR
193	*Shorea seminis*		CR
194	*Sindora inermis*		VU
195	*Sindora supa*		VU
196	*Stryphnodendron harbesonii*		VU

#	Scientific Name	Common Name	Category
197	*Tabernaemontana cordata*		VU
198	*Tectona philippinensis*	PHILIPPINE TEAK	EN
199	*Terminalia nitens*		VU
200	*Terminalia pellucida*		VU
201	*Tristania decorticata*		VU
202	*Tristania littoralis*		VU
203	*Vanda javierae*		EN
204	*Vanda scandens*		EN
205	*Vatica mangachapoi*		EN
206	*Vatica pachyphylla*		CR
207	*Vatica elliptica*		CR
208	*Vatica maritima*		EN
209	*Vitex parviflora*		VU
210	*Xanthostemon verdugonianus*		VU
211	*Xylosma palawanense*		VU
212	*Ziziphus hutchinsonii*		VU
213	*Ziziphus talanai*		VU

Conservation Status　CR: Critically Endangered、EN: Endangered、VU: Vulnerable

Source: Environmental Profile of the Philippines, JICA (2007)

Red List of the Philippine Red Data Book,1997

Red List of the Philippine Red Data Book

Class	Order	Family	Scientific Name	Common Name
Clams	Veneroida	Tridacnidae	*Hippopus hippopus*	Bear's Paw Clam
			Hippopus porcellanus	China Clam
			Tridacna crocea	Boring Clam
			Tridacna derasa	Southern Giant Clam
			Tridacna gigas	Giant Clam
			Tridacna maxima	Small Giant Clam
			Tridacna squamosa	Scaly Clam
Butterflies	Lepidoptera	Papilionidae	*Pachliopta atropos*	
			Atrophaneura schadenbergi	
			Graphium idaeoides	
			Graphium megaera	
			Graphium sandawanum	
			Papilio benguetanus	
			Papilio carolinensis	
			Papilio chikae	
			Papilio osmana	
		Danaidae	*Euploea tobleri inouei*	
			Euploea tobleri mangyan	
			Euploea tobleri peducaea	
			Euploea tobleri romeo	
			Euploea tobleri silmae	
			Euploea tobleri snelleni	
			Euploea tobleri tobleri	
			Euploea tobleri yoshioi	
			Idea electra electra	
			Idea electra barmonia	
			Parantica dannatti dannatti	
			Parantica dannatti malinagensis	
			Parantica dannatti reyesi	
			Parantica davidi	
			Parantica milagros	
			Parantica phyle	
			Parantica schoenigi	
Amphibians	Anura	Ranidae	*Platymantis insulata*	Island Forest Frog
			Platymantis spelaea	Negros Cave Frog
Reptiles	Testudines/ Testudinate	Cheloniidae	*Chelonia mydas*	Green Turtle
			Eretmochelys imbricata	Hawksbill Turtle
			Lepidochelys olivacea	Olive Ridley Pacific Ridley

Class	Order	Family	Scientific Name	Common Name
			Caretta caretta	Loggerhead Turtle
		Dermocheliidae	*Dermochelys coriacea*	Leatherback Turtle
		Emydidae	*Heosemys Leytensis*	Leyte Pond Turtle
	Crocodylia	Crocodylidae	*Crocodylus mindorensis*	Philippine Crocodile
			Crocodylus porosus	Saltwater Crocodile
	Squamata	Varanidae	*Varanus olivaceus*	Gray's Monitor
		Agamidae	*Hydrosaurus pustulatus*	Sailfin lizard
Birds	Pelecaniformes	Pelecanidae	*Pelecanus philippensis*	Spot-billed Pelican
	Ciconiiformes	Ardeidae	*Egretta eulophotes*	Chinese Egret
			Gorsachius goisagi	Japanese Night-Heron
		Threskiornithidae	*Platalea minor*	Black-faced Spoonbill
	Falconiformes	Accipitridae	*Pithecophaga jefferyi*	Philippine Eagle
			Spizaetus philippensis	Philippine Hawk-Eagle
	Galliformes	Phasianidae	*Polyplectron napoleonis*	Palawan Peacock - Pheasant
	Gruiformes	Turnicidae	*Turnix worcesteri*	Worcester's Buttonquail
		Rallidae	*Lewinia mirificus*	Brown-banded Rail
		Scolopacidae	*Tringa guttifer*	Nordmann's Greenshank
		Laridae	*Sterna bernsteini*	Chinese Crested-Tern
	Columbiformes	Columbidae	*Gallicolumba platenae*	Mindoro Bleeding-Heart
			Gallicolumba keayi	Negros Bleeding-Heart
			Gallicolumba crinigera	Mindoro Bleeding-Heart
			Gallicolumba menagei	Sulu Bleeding-Heart
			Phapitreron cinereiceps	Tawitawi Brown-Dove
			Ptilinopus marchei	Flame-Breasted Fruit-Dove
			Ptilinopus arcanus	Negros Fruit-Dove
			Ducula mindorensis	Mindoro Imperial-Pigeon
			Ducula carola	Spotted Imperial-Pigeon
			Ducula pickeringii	Grey Imperial-Pigeon
	Psittaciformes	Psittacidae	*Trichoglossus johnstoniae*	Mindanao Lorikeet
			Cacatua haematuropygia	Philippine Cockatoo
			Prioniturus montanus	Montane Racquet-tail
			Prioniturus platenae	Blue-headed Racquet-tail
			Prioniturus luconensis	Green Racquet-tail
			Prioniturus verticalis	Blue-winged Racquet-tail
			Tanygnathus lucionensis	Blue-naped Parrot

Class	Order	Family	Scientific Name	Common Name
	Cuculiformes	Cuculidae	*Centropus steerii*	Black-Hooded Coucal
	Strigiformes	Strigidae	*Otus longicornis*	Luzon Scops Owl
			Otus mindorensis	Mindoro Scops Owl
			Otus mirus	Mindanao Scops Owl
			Otus fuliginosus	Palawan Scops Owl
			Mimizuku gurneyi	Lesser Eagle Owl
			Bubo philippensis	Philippine Eagle Owl
	Apodiformes	Apodidae	*Collocalia whiteheadi*	Whitehead's Swiftlet
	Coraciiformes	Alcedinidae	*Alcedo argentata*	Silvery Kingfisher
			Ceyx melanurus	Philippine Dwarf Kingfisher
			Todiramphus winchelli	Rufous-Lored Kingfisher
			Actenoides hombroni	Blue-Capped Kingfisher
		Bucerotidae	*Anthracoceros montani*	Sulu Hornbill
			Penelopides mindorensis	Mindoro Tarictic
			Penelopides Panini	Visayan Tarictic
			Aceros waldeni	Visayan Wrinkled Hornbill
			Aceros leucocephalus	Writhed Hornbill
	Passeriformes	Eurylaimidae	*Eurylaimus steerii*	Wattled Broadbill
		Pittidae	*Pitta steerii,*	Azure-breasted Pitta
			Pitta kochi	Whiskered Pitta
		Campephagidae	*Coracina mindanensis*	Black-bibbed Cuckoo-shrike
			Coracina mcgregori	McGregor's Cuckoo-shrike
			Coracina ostenta	White-winged Cuckoo-shrike
		Pycnonotidae	*Ixos siquijorensis*	Streak-breasted Bulbul
		Irenidae	*Chloropsis flavipennis*	Philippine Leafbird
		Muscicapidae	*Zoothera cinerea*	Ashy Thrush
			Copsychus cebuensis	Black Shama
			Rhyacornis bicolor	Luzon water-Redstart
		Timaliinae	*Trichastoma woodi*	Bagobo Babbler
			Malacopteron palawanense	Melodious Babbler
			Ptilocichla falcata	Falcated Wren-babbler
			Napothera rabori	Rabor's Wren-babbler
			Stachyris speciosa	Flame-templed Babbler
			Stachyris striata	Luzon Striped Babbler
			Stachyris latistriata	Panay Striped Babbler

Class	Order	Family	Scientific Name	Common Name
			Stachyris nigrorum	Negros Striped Babbler
			Stachyris hypogrammica	Palawan Striped Babbler
			Micromacronus leytensis	Miniature Tit-babbler
		Sylviinae	*Acrocephalus sorghophilus*	Streaked Reed Warbler
			Phylloscopus ijimae	Ijima's Leaf Warbler
		Muscicapinae	*Rhinomyias insignis*	White-Browed Jungle-Flycatcher
			Rhinomyias albigularis	White-throated Jungle Flycatcher
			Rhinomyias goodfellowi	Slaty-backed Jungle Flycatcher
			Muscicapa randi	Ashy-breasted Flycatcher
			Ficedula basilanica	Little Slaty Flycatcher
			Ficedula platenae	Palawan Flycatcher
			Ficedula crypta	Cryptic Flycatcher
			Ficedula disposita	Furtive Flycatcher
		Monarchinae	*Hypothymis coelestis*	Celestial Monarch
		Dicaeidae	*Dicaeum proprium*	Whiskered Flowerpecker
			Dicaeum quadricolor	Cebu Flowerpecker
			Dicaeum haematostictum	Visayan Flowerpecker
			Dicaeum retrocinctum	Scarlet-collared Flowerpecker
		Emberizinae	*Emberiza sulphurata*	Yellow Bunting
		Estrilidae	*Erythrura viridifacies*	Green-faced Parrotfinch
			Erythrura coloria	Red-eared Parrotfinch
		Oriolidae	*Oriolus isabellae*	Isabela Oriole
Mammals	Insectivora	Erinaceidae	*Podogymnura aureospinula*	Dinagat Moonrat
		Soricidae	*Crocidura grandis*	Mt. Malindang Shrew
			Crocidura mindorus	Mindanao Shrew
			Crocidura negrina	Negros Shrew
	Chiroptera	Pteropodidae	*Acerodon jubatus*	Golden-Capped Fruit Bat
			Acerodon leucotis	Palawan Fruit Bat
			Alionycteris paucidentata	Mindanao Pygmy Fruit Bat
			Dobsonia chapmani	Negros Naked-Backed Fruit Bat
			Dyacopterus spadiceus	Dayak fruit bat
			Eonycteris robusta	Philippine nectar bat

Class	Order	Family	Scientific Name	Common Name
			Haplonycteris fischeri	Fischer's Pygmy Fruit Bat
			Nyctimene rabori	Philippine Tube-Nosed Fruit Bat
			Pteropus dasymallus	Ryukyu flying fox
			Pteropus leucopterus	White-Winged Flying Fox
			Pteropus speciosus	Philippine Gray Flying Fox
		Rhinolophidae	*Hipposideros pygmaeus*	Philippine pygmy roundleaf bat
			Rhinolophus rufus	Large Rufous Horseshoe Bat
	Pholidota	Manidae	*Manis javanica*	Malaysian Pangolin
	Primates	Lorisidae	*Nycticebus coucang*	Slow Loris
	Rodentia	Sciuridae	*Sundasciurus rabori*	Palawan Montane Squirrel
		Muridae	*Anonymomys mindorensis*	Mindoro Climbing Rat
			Apomys gracilirostris	Large Mindoro Forest Mouse
			Archboldomys luzonensis	Mt. Isarog Shrew-mouse
			Chrotomys gonzalesi	Isarog Striped Shrew－Rat,
			Chrotomys	Sibuyan Striped Shrew-Rat
			Crateromys schadenbergi	Giant Bushy－Tailed Cloud Rat
			Crateromys heaneyi	Panay Bushy-Tailed Cloud Rat
			Crateromys paulus	Oilin Bushy-Tailed Cloud Rat
			Crateromys schadenbergi	Giant Bushy-Tailed Cloud Rat
			Crunomys melanius	Mindanao Shrew-Mouse
			Palawanomys furvus	Palawan Soft－Furred Mountain Rat
			Phloeomys cumingi	Southern Giant Slender-Tailed Cloud Rat
			Phloeomys pallidus	Northern Luzon Slender-Tailed Cloud Rat

Class	Order	Family	Scientific Name	Common Name
			Rattus tawitawiensis	Tawi-Tawi Forest Rat
			Rhynchomys isarogensis	Isarog Shrew Rat
			Tarsomys echinatus	Mindanao Spiny
			Tarsomys	Sibuyan Giant Moss-Mouse
			Tarsomys	Camiguin Giant Moss-Mouse
	Carnivora	Felidae	*Prionailurus bengalensis*	Leopard Cat
		Mustelidae	*Amblonyx cinereus*	Oriental Small-clawed Otter
			Mydaus marchei	Palawan Stink Badger
		Viverridae	*Arctictis binturong*	Binturong
	Artiodactyla	Suidae	*Sus barbatus*	Bearded Pig
			Sus cebifrons	Visayan Warty Pig
			Sus philippensis	Philippine Warty Pig
		Tragulidae	*Tragulus napu*	Greater Mouse-Deer
		Cervidae	*Axis calamianensis*	Calamanian Hog-Deer
			Cervus alfredi	Philippine Spotted Deer
			Cervus mariannus	Philippine Brown Deer
		Bovidae	*Bubalus mindorensis*	Mindoro Dwarf Buffalo
	Cetacea	Phocoenidae	*Neophocaena phocaenoides*	Finless Porpoise
		Delphinidae	*Steno bredanensis*	Rough-toothed Dolphin
			Grampus griseus	Risso's Dolphin
			Tursiops truncates	Bottlenose Dolphin
			Stenella attenuata	Pantropical Spotted Dolphin
			Lagenodelphis hosei	Fraser's Dolphin
			Feresa attenuata	Pygmy Killer Whale
			Orcinus orca	Killer Whale
			Globicephala macrorhyncus	Short-finned Pilot Whale
		Ziphidae	*Mesoplodon densirostris*	Blainville's Beaked Whale
		Physeteridae	*Physeter macrocephalus*	Sperm Whale
		Kogiidae	*Kogia breviceps*	Pygmy Sperm Whale
			Kogia simus	Dwarf Sperm Whale
		Balaenopteridae	*Balaenoptera acutorostrata*	Minke Whale
			Balaenoptera edeni	Bryde’s Whale
			Megaptera novaeangliae	Humpback Whale
	Sirenia	Dugongidae	*Dugong dugon*	Dugong

Source: Philippine Red Data Book, Wildlife Conservation Society of the Philippines (1997)

Threatened Species by the National Laws

Threatened Species by the National Laws

THE LIST OF TERRESTRIAL THREATENED SPECIES AND THEIR CATEGORIES, AND THE LIST OF OTHER WILDLIFE SPECIES PURSUANT TO REPUBLIC ACT NO. 9147, OTHERWISE KNOWN AS THE WILDLIFE RESOURCES CONSERVATION AND PROTECTION ACT OF 2001

Definition of Terms

1. **Threatened Species** – is a general term to denote species or subspecies considered as critically endangered, endangered, vulnerable or other accepted categories of wildlife which population is at risk of extinction;

2. **Critically Endangered Species –** refers to a species or subspecies that is facing extremely high risk of extinction in the wild in the immediate future;

3. **Endangered Species –** refers to species or subspecies that is not critically endangered but which survival in the wild is unlikely if the causal factors continue operating;

4. **Vulnerable Species** – refers to species or subspecies that is not critically endangered nor endangered but is under threat from adverse factors throughout their range and is likely to move to the endangered category in the near future;

5. **Other Threatened Species** – refers to species or subspecies that is not critically endangered, endangered nor vulnerable but is under threat from adverse factors, such as over collection, throughout their range and is likely to move to the vulnerable category in the near future;

6. **Other Wildlife Species** – refers to non-threatened species that have the tendency to become threatened due to predation and destruction of habitat or other similar causes as may be listed by the Secretary upon the recommendation of the National Wildlife Management Committee.

The List of Threatened Wildlife and their Categories.

A. Critically Endangered Species

MAMMALS

Family	Scientific Name	Common Name
Bovidae	*1. Bubalus mindorensis*	Tamaraw
Cervidae	*2. Cervus alfredi*	Visayan spotted deer
Muridae	*3. Crateromys australis*	Dinagat hairy-tailed cloud rat
	4. Crateromys paulus	Ilin hairy-tailed cloud rat
Pteropodidae	*5. Dobsonia chapmani*	Philippine bare-backed fruit bat

Dugongidae	*6. Dugong dugon*	Dugong
Suidae	*7. Sus cebifrons*	Visayan warty pig

BIRDS

Family	Scientific Name	Common Name
Psittacidae	*8. Cacatua haematuropygia*	Philippine Cockatoo
Bucerotidae	*9. Aceros waldeni*	Walden's hornbill
	10 Anthracoceros montani	Sulu hornbill
Dicaeidae	*11 Dicaeum quadricolor*	Cebu flowerpecker
Accipitridae	*12. Pithecophaga jefferyi*	Philippine eagle
Cuculidae	*13. Centropus steerii*	Black-hooded coucal
Sternidae	*14. Sterna bernsteini*	Chinese crested tern
Gruidae	*15. Grus antigone*	Sarus crane
Columbidae	*16. Phapitreron cinereiceps*	Tawi-tawi brown dove
	17. Gallicolumba menagei	Sulu bleeding-heart
	18. Gallicolumba keayi	Negros bleeding-heart
	19. Gallicolumba platenae	Mindoro bleeding-heart
	20. Ptilinopus arcanus	Negros fruit-dove

REPTILES

Family	Scientific Name	Common Name
Cheloniidae	*21. Eretmochelys imbricata*	Hawksbill turtle
Bataguridae	*22. Heosemys leytensis*	Philippine pond turtle
Crocodylidae	*23. Crocodylus mindorensis*	Philippine crocodile
Varanidae	*24. Varanus mabitang*	Panay monitor lizard

CITES-LISTED SPECIES

All species of terrestrial fauna and flora listed under Appendix I of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) shall fall under this category.

B. Endangered Species

MAMMALS

Family	Scientific Name	Common Name
Pteropodidae	*25. Acerodon jubatus*	Golden-crowned fruit bat
	25. Nyctimene rabori	Philippine tube-nosed fruit bat
Cervidae	*27. Cervus calamianensis*	Calamian deer
Muridae	*28. Crateromys heaneyi*	Panay bushy-tailed cloud rat
Suidae	*29. Sus sp. A from the Sulu Archipelago*	

BIRDS

Family	Scientific Name	Common Name
Bucerotidae	*30. Penelopides panini*	Visayan tarictic hornbill
	31. Penelopides mindorensis	Mindoro hornbill
Pycnonotidae	*32. Hypsipetes siquijorensis (=Ixos siquijorensis)*	Streak-breasted bulbul (=Mottle-breasted bulbul)
Psittacidae	*33. Prioniturus verticalis*	Blue-winged racket-tail
Ciconiidae	*34. Ciconia boyciana*	Japanese white stork
Muscicapidae	*35. Rhinomyias albigularis*	White-throated jungle flycatcher
Timaliidae	*36. Stachyris nigrorum*	Negros striped-babbler
	37. Stachyris speciosa (=Dasycrotapha speciosa)	Flame-templed babbler
Turdidae	*38. Copsychus cebuensis*	Black shama
	39. Rhyacornis bicolor	Luzon water-redstart
Columbidae	*40. Gallicolumba criniger*	Mindanao bleeding-heart
Ardeidae	*41. Gorsachius goisagi*	Japanese night-heron
Scolopacidae	*42. Tringa guttifer*	Nordmann's greenshank

REPTILES

Family	Scientific Name	Common Name
Cheloniidae	*43. Caretta caretta*	Loggerhead turtle
	44. Chelonia mydas	Green sea turtle
	45. Lepidochelys olivacea	Olive ridley sea turtle
	46. Dermochelys coriacea	Leatherback turtle
Bataguridae	*47. Heosemys spinosa*	Spiny terrapin
Trionychidae	*48. Pelochelys cantorii*	Southeast Asian softshell Turtle

AMPHIBIANS

Family	Scientific Name	Common Name
Ranidae	*49. Platymantis negrosensis*	Negros forest tree frog
	50. Platymantis polilloensis	Polillo forest tree frog
	51. Platymantis spelaeus	Negros limestone frog
	52. Platymantis subterrestris	Mt. Data cloud frog

CITES-LISTED SPECIES

All species of terrestrial fauna and flora listed under Appendix II of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) shall fall under this category.

C. Vulnerable Species

MAMMALS

Family	Scientific Name	Common Name
Pteropodidae	53. *Acerodon leucotis*	Palawan flying fox
	54. *Pteropus dasymallus*	Wooly flying fox
	55. *Pteropus speciosus*	Philippine gray flying fox
	56. *Pteropus leucopterus*	White-winged fruit bat
Muridae	57. *Archboldomys luzonensis*	Isarog shrew-mouse
	58. *Crateromys schadenbergi*	Bushy tailed-cloud rat
	59. *Phloeomys cumingi*	Southern Luzon giant cloud rat
	60. *Batomys russatus*	Dinagat hairy-tailed rat

Family	Scientific Name	Common Name
Cervidae	61. *Cervus mariannus*	Philippine brown deer
Manidae	62. *Manis culionensis*	Palawan pangolin
Erinaceidae	63. *Podogymnura aureospinula*	Dinagat gymnure
Felidae	64. *Prionailurus bengalensis*	Leopard cat
Suidae	65. *Sus barbatus*	Bearded pig
	66. *Sus philippensis*	Philippine warty pig
Tragulidae	67. *Tragulus napu*	Mouse deer
Pteropodidae	68. *Pteropus sp. A from Mindoro Island*	
	69. *Haplonycteris sp. A from Sibuyan Island*	

BIRDS

Family	Scientific Name	Common Name
Columbidae	*70. Ducula carola*	Spotted imperial pigeon
	71. Ducula mindorensis	Mindoro imperial-pigeon
	72. Ptilinopus marchei	Flame-breasted fruit dove
	73. Ducula pickeringii	Grey imperial-pigeon
	74. Caloenas nicobarica	Nicobar pigeon
	75. Ducula poliocephala	Pink-bellied imperial-pigeon
	76. Gallicolumba luzonica	Luzon bleeding-heart pigeon
	77. Ptilinopus merrilli	Cream-bellied fruit dove
	78. Treron formosae	Whistling green-pigeon
Alcedinidae	*79. Ceyx melanurus*	Philippine dwarf kingfisher
	80. Alcedo argentata	Silvery kingfisher
	81. Todiramphus winchelli	Rufous-lored kingfisher
	82. Actenoides hombroni	Blue-capped kingfisher
Muscicapidae	*83. Muscicapa randi*	Ashy-breasted flycatcher
	84. Ficedula platenae	Palawan flycatcher
	85. Rhinomyias insignis	White-browned jungle
	86. Ficedula basilanica	flycatcher
	87. Hypothymis coelestis	Little slaty flycatcher Celestial blue monarch
Campephagidae	*88. Coracina ostenta*	White-winged cuckoo-shrike
	89. Coracina mcgregori	Mcgregor's cuckoo-shrike
Dicaeidae	*90. Dicaeum haematostictum*	Visayan flowerpecker Scarlet-collared flowerpecker
	91. Dicaeum retrocinctum	
Eurylaimidae	*92. Eurylaimus samarensis*	Visayan broadbill
	93. Eurylaimus steerii	Mindanao broadbill
Picidae	*94. Picoides ramsayi*	Sulu woodpecker
Chloropseidae	*95. Chloropsis flavipennis*	Philippine leafbird
Pittidae	*96. Pitta steerii*	Azure-breasted pitta
	97. Pitta kochi	Koch's pitta
Estrildidae	*98. Erythrura viridifacies*	Green-faced parrotfinch
Family	**Scientific Name**	**Common Name**
Turdidae	*99. Zoothera cinerea*	Ashy thrush
	100. Rhyacornis bicolor	Luzon water-redstart
Timaliidae	*101. Ptilocichla falcate*	Falcated wren-babbler
Phasianidae	*102. Polyplectron emphanum*	Palawan peacock-pheasant
Bucerotidae	*103. Anthracoceros marchei*	Palawan hornbill
	104. Aceros leucocephalus	Writhed hornbill
	105. Buceros hydrocorax	Rufous hornbill
Psittacidae	*106. Prioniturus platenae*	Blue-headed racket-tail
	107. Prioniturus luconensis	Green-headed racket-tailed
	108. Tanygnathus lucionensis	parrot Blue-naped parrot
Strigidae	*109. Bubo philippensis*	Philippine eagle-owl
	110. Mimizuki gurneyi	Giant scops-owl
Accipitridae	*111. Spizaetus philippensis*	Philippine hawk-eagle
	112. Ichthyophaga ichthyaetus	Grey-headed fish-eagle
Silviidae	*113. Acrocephalus sorghophilus*	Streaked reed-warbler
	114. Phylloscopus ijimae	Ijima's leaf-warbler

Ardeidae	*115 Egretta eulophotes*	Chinese egret
Emberizidae	*116. Emberiza sulphurata*	Japanese yellow bunting
Scolopacidae	*117. Eurynorhynchus pygmaeus*	Spoon-billed sandpiper
	118. Numenius tahitiensis	Bristle-thighed curlew
Charadriidae	*119. Charadrius peronii*	Malaysian plover
Sturnidae	*120. Gracula religiosa*	Palawan hill myna
Anatidae	*121. Anas luzonica*	Philippine duck
Anhingidae	*122. Anhinga melanogaster*	Darter
Megapodiidae	*123. Megapodius cumingii*	Tabon scrubfowl

REPTILES

Family	Scientific Name	Common Name
Varanidae	*124. Varanus olivaceus*	Gray's monitor lizard
	125. *Varanus salvator cumingi*	Malay monitor lizard (Mindanao population)
	126. Varanus salvator marmoratus	Malay monitor lizard (Northern Philippine population)
	127. Varanus salvator nuchalis	Malay monitor lizard (Central Visayas population)

AMPHIBIANS

Family	Scientific Name	Common Name
Ichthyophiidae	*128. Ichthyophis glandulosus*	Basilan caecilian
	129. Ichthyophis mindanaoensis	Mindanao caecilian
Bufonidae	*130. Ansonia mcgregori*	Macgregor's slender toad
Ranidae	*131. Limnonectes magnus*	Mindanao fanged Frog
	132. Platymantis hazelae	Hazel's forest frog
	133. Platymantis insulatus	Gigante island limestone frog
	134. Platymantis lawtoni	Lawton's forest frog
	135. Platymantis rabori	Rabor's forest frog
	136. Rana igorota	Taylor's igorot frog
Rhacophoridae	*137. Philautus schmackeri*	Mindoro tree frog

D. Other Threatened Species

MAMMALS

Family	Scientific Name	Common Name
Viverridae	*138. Arctictis binturong*	Binturong
Cynocephalidae	*139. Cynocephalus volans*	Flying lemur
Cercopithecidae	*140. Macaca fascicularis*	Philippine macaque
Pteropodidae	*141. Pteropus vampyrus*	Giant flying fox
Tarsiidae	*142. Tarsius syrichta*	Philippine tarsier

REPTILES

Family	Scientific Name	Common Name
Varanidae	*143. Varanus salvator rudicollis*	Rough-necked monitor
Agamidae	*144. Hydrosaurus postulatus*	Philippine sailfin Lizard
Boidae	*145. Python reticulatus*	Reticulated python
	146. Trimeresurus flavomaculatus mcgregori	Batanes pit viper

The List of Other Wildlife Species

BIRDS

Family	Scientific Name	Common Name
Oriolidae	*147. Oriolus isabellae*	Isabela oriole

AMPHIBIANS

Family	Scientific Name	Common Name
Discoglossidae	*148. Barbourula busuangensis*	Philippine flat-headed frog

THE NATIONAL LIST OF THREATENED PHILIPPINE PLANTS AND THEIR CATEGORIES, AND THE LIST OF OTHER WILDLIFE SPECIES

Definition of Terms.

1. **Common name –** refers to the adopted name of a species as is widely used in the country; may be based on English or other foreign name, or Tagalog name, or when no local or vernacular name is available is derived from the meaning of its scientific name;

2. **Critically Endangered Species** – refers to a species or subspecies facing extremely high risk of extinction in the wild in the immediate future. This shall include varieties, formae or other infraspecific categories;

3. **Endangered Species** - refers to a species or subspecies that is not critically endangered but whose survival in the wild is unlikely if the causal factors continue operating. This shall include varieties, formae or other infraspecific categories;

4. **Other Threatened Species** – refers to a species or subspecies that is not critically endangered, endangered nor vulnerable but is under threat from adverse factors, such as over collection, throughout its range and is likely to move to the vulnerable category in the near future. This shall include varieties, formae or other infraspecific categories;

5. **Other Wildlife Species** – refers to non-threatened species of plants that have the tendency to become threatened due to destruction of habitat or other similar causes as may be listed by the Secretary upon the recommendation of the National Wildlife Management Committee. This shall include varieties, formae or other infraspecific categories;

6. **Threatened Species** – is a general term to denote species or subspecies that is considered as critically endangered, endangered, vulnerable or other accepted categories of wildlife whose populations are at risk of extinction. This shall include varieties, formae or other infraspecific categories;

7. **Wildlife** – means wild forms and varieties of flora and fauna, in all developmental stages, including those which are in captivity or are being bred or propagated.

List of Threatened Species of Plants and their Categories

Catergory A. Critically Endangered Species

FAMILY	SCIENTIFIC NAME	COMMON NAME
APOCYNACEAE	*Kibatalia longifolia* Merr.	Malapasnit
CYATHEACEAE	*Cyathea microchlamys* Holtt.	Tree Fern

DIPTEROCARPACEAE	*Hopea acuminata* Merr.	Manggachapui/Dalingdingan
	Hopea basilanica Foxw.	Basilan yakal
	Hopea brachyptera (Foxw.) Slooten	Mindanao narek
	Hopea cagayanensis (Foxw.) Slooten	Narek
	Hopea foxworthyi Elmer	Dalindingan
	Hopea malibato Foxw.	Yakal-kaliot
	Hopea mindanensis Foxw.	Yakal-magasusu
	Hopea philippinensis Dyer	Gisok-gisok
	Hopea quisumbingiana Gutierrez	Quisuimbing gisok
	Hopea samarensis Gutierrez	Samar gisok
	Shorea astylosa Foxw.	Yakal
	Shorea malibato Foxw.	Yakal-malibato
	Vatica elliptica Foxw.	Kaladis narig
	Vatica pachyphylla Merr.	Thick-leafed Narig
DRYOPTERIDACEAE	*Ctenitis paleolata* Copel.	
EBENACEAE	*Diospyros blancoi* A DC.	Kamagong/mabolo
	Diospyros brideliifolia Elmer	Malinoag
	Diospyros cauliflora Blume	Apunan
	Diospyros poncei Merr.	Ponce kamagong
ERICACEAE	*Rhododendron javanicum* (Blume) Benn. var. *schadenbergii* (Warb.) Sleum.	Malagos
	Rhododendron kochii Stein	Koch's malagos
	Rhododendron taxifolium Merr.	Yew-leafed rhododendron
EUPHORBIACEAE	*Reutealis trisperma* (Blanco) Airy Shaw	Baguilumbang
HYPERICACEAE	*Hypericum pulogense* Merr.	Pulag St. Johnswort
ISOETACEAE	*Isoetes philippinensis* Merr. & Perry	Philippine Quillwort; Rogiro; Kabauingbauing
LAURACEAE	*Cinnamomum cebuense* Kosterm.	Cebu kalingag
LEGUMINOSAE	*Pterocarpus indicus* Willd. forma *indicus*	Smooth narra
	Pterocarpus indicus Willd. forma *echinatus* (Pers.) Rojo	Prickly narra
LORANTHACEAE	*Thaumasianthes amplifolia* (Merr.) Danser	Samar mistletoe
MELIACEAE	*Aglaia pyriformis* Merr.	Kanining-peneras
	Toona calantas Merr. & Rolfe	Kalantas
MYRTACEAE	*Syzygium nitidum* Benth.	Maka-asim
	Tristaniopsis decorticata (Merr.) Peter G. Wilson & Waterhouse	Malabayabas
	Xanthostemon bracteatus Merr.	Mapilig
	Xanthostemon philippinensis Merr.	Bagoadlau
NEPENTHACEAE	*Nepenthes argentii* M Jebb & M Cheek	Argent Pitcher plant
	Nepenthes merrilliana Macfarlane	Mindanao giant Pitcher plant
	Nepenthes sibuyanensis J Nerz	Sibuyan Pitcher plant
OLEACEAE	*Chionanthus clementis* (Quisumb. & Merr.) Kiew	Kayantol

	Chionanthus remotinervius (Merr.) Kiew	Pamoplasin
	Olea palawanensis Kiew	Palawan olive
ORCHIDACEAE	*Amesiella monticola* J. Cootes & DP Banks	–
	Ascoglossum calopterum (Reichb. f.) Schlecter	–
	Ceratocentron fesseli Senghas	–
	Dendrobium schuetzei Rolfe	–
	Euanthe sanderiana (Reichb. *f.*) Schltr.	Waling-waling
	Gastrochilus calceolaris (Buch.- Ham. ex J.E. Sm.) D.Don	–
	Paphiopedilum acmodontum Schoser *ex* MW Wood	Lady slipper
	Paphiopedilum adductum Asher	Lady slipper
	Paphiopedilum anitum Golamco	Lady slipper
	Paphiopedilum argus (Reichb.*f.*) Stein	Lady slipper
	Paphiopedilum fowliei Birk	Lady slipper
	Paphiopedilum haynaldianum (Reichb.*f.*) Stein	Lady slipper
	Paphiopedilum hennisianum (MW Wood) Fowlie	Lady slipper
	Paphiopedilum randii Fowlie	Lady slipper
	Paphiopedilum urbanianum Fowlie	Lady slipper
	Paphiopedilum usitanum O Gruss & J Roeth	Lady slipper
	Phalaenopsis micholitzii Rolfe	–
	Phragmorchis teretifolia LO Williams	–
	Vanda lamellata Lindl. var. calayan Valmayor & D. Tiu	–
PALMAE	*Areca* parens Becc.	Takobtob
	Calamus batanensis (Becc.) Baja-Lapis	Valit
	Calamus jenningsianus Becc.	
	Calamus vinosus Becc.	–
	Daemonorops affinis Becc.	Bag-bag
	Daemonorops oligolepis Becc.	Rogman
	Daemonorops pannosus Becc.	Sabilog
	Heterospathe califrons Fernando	Yanisi
	Heterospathe dransfieldii Fernando	Dransfield sanakti
	Heterospathe scitula Fernando	Malasanakti
	Heterospathe sibuyanensis Becc.	Bilis
	Heterospathe trispatha Fernando	Tatlong bilisan
	Pinanga batanensis Becc.	Dapiau
	Pinanga bicolana Fernando	Bicol abiki
	Pinanga samarana Becc.	Samar abiki
	Pinanga sclerophylla Becc.	Abiking-tigas
	Pinanga sibuyanensis Becc.	Tibañgan
	Plectocomia elmeri Becc.	Uñgang
PERANEMACEAE	*Peranema cyatheoides* D. Don var. *luzonicum* (Copel.) Ching & S. H. Wu	–
POLYPODIACEAE	*Platycerium coronarium* (Koenig *ex* Miller) Desv.	Staghorn fern
	Platycerium grande (Fee) Kunze	Giant staghorn fern
	Podosorus angustatus Holtt.	
PTERIDACEAE	*Pteris calocarpa* (Copel.) M. G. Price	–
	Pteris pachysora (Copel.) M. G. Price	–
RAFFLESIACEAE	*Rafflesia manillana* Teschem.	Malaboo
	Rafflesia speciosa Barcelona & Fernando	Uruy

	Rafflesia schadenbergiana Göppert *ex* Hieron.	Bo-o
RUBIACEAE	*Greeniopsis pubescens* Merr.	Paluay mabolo
	Villaria acutifolia (Elmer) Merr.	Tango
RUTACEAE	*Swinglea glutinosa* (Blanco) Merr.	Kabuyok
SAPINDACEAE	*Gongrospermum philippinense* Radlk.	Kasau-kasau
	Guioa palawanica Welzen	Palawan alahan
	Guioa parvifoliola Merr.	Angset
	Guioa reticulata Radlk.	Alahan-sinima
THELYPTERIDACEAE	*Coryphopteris borealis* Holtt.	–
VERBENACEAE	*Clerodendrum quadriloculare* (Blanco) Merr.	Bagauak-morado
	Tectona philippinensis Benth. & Hook. *f.*	Philippine teak

CATEGORY B. Endangered Species

FAMILY NAME	SCIENTIFIC NAME	COMMON NAME
ANACARDIACEAE	*Mangifera odorata* Griff.	Huani
APOCYNACEAE	*Kibatalia puberula* Merr.	Paslit-mabolo
	Kibatalia stenopetala Merr.	Paslit-kitid
ARACEAE	*Alocasia sanderiana* W. Bull.	–
ARALIACEAE	*Schefflera agamae* Merr.	Agama galamay-amo
	Schefflera albido-bracteata Elmer	Makinging
	Schefflera curranii Merr.	Curran galamay-amo
	Schefflera palawanensis Merr.	Palawan galamay-amo
ASCLEPIADACEAE	*Hoya alagensis* Kloppenburg	–
	Hoya angustisepala Burton	–
	Hoya burtoniae Kloppenburg	–
	Hoya crasssicaulis (Elmer) Kloppenburg	–
	Hoya el-nidicus Kloppenburg	–
	Hoya gigantanganensis Kloppenburg	–
	Hoya greenii Kloppenburg	–
	Hoya halconensis Kloppenburg	–
	Hoya heuschkeliana Kloppenburg	–
	Hoya panchoi Kloppenburg	–
	Hoya pulgarensis Elmer	–
	Hoya quinquinervia Warb.	–
	Hoya quisumbingii Kloppenburg	–
	Hoya rizaliana Kloppenburg	–
	Hoya wayetii Kloppenburg	–
CENTROLEPIDACEAE	*Centrolepis philippinensis* Merr.	–

COMBRETACEAE	*Terminalia darlingii* Merr.	Malaputat
CYATHEACEAE	*Cyathea acuminata* Copel.	Tree Fern
	Cyathea apoensis Copel.	Tree Fern
	Cyathea atropurpurea Copel.	Tree Fern
	Cyathea binuangensis Alderw.	Tree Fern
	Cyathea callosa Christ	Tree Fern
	Cyathea caudata (J. Sm.) Copel.	Tree Fern
	Cyathea christii Copel.	Tree Fern
	Cyathea cinerea Copel.	Tree Fern
	Cyathea curranii Copel.	Tree Fern
	Cyathea edanoi Copel.	Tree Fern
	Cyathea ferruginea Christ	Tree Fern
	Cyathea fuliginosa (Christ) Copel.	Tree Fern
	Cyathea halconensis Christ	Tree Fern
	Cyathea heterochlamydea Copel.	Tree Fern
	Cyathea integra J. Sm. *ex* Hook.	Tree Fern
	Cyathea masapilidensis Copel.	Tree Fern
	Cyathea negrosiana Christ	Tree Fern
CYCADACEAE	*Cycas curranii* (Schuste.) K.D. Hill	Curran pitogo
	Cycas edentata de Laubenf.	Pitogong dagat
	Cycas riuminiana Porté ex Regel	Pitogo
	Cycas silvestris K.D. Hill	Palawan pitogo
	Cycas wadei Merr.	Culion pitogo
DIPTEROCARPACEAE	*Anisoptera costata* Korth.	Mindanao palosapis
	Dipterocarpus eurynchus Miq.	Basilan apitong
	Dipterocarpus philippinensis Foxw.	Hairy-leafed apitong
	Hopea plagata (Blanco) Vidal	Yakal saplungan
	Shorea ovata Dyer ex Brandis	Tiaong
DRYOPTERIDACEAE	*Dryopteris chrysocoma (Christ) Chr.*	–
	Dryopteris permagna M. G. Price	–
EBENACEAE	*Diospyros longiciliata* Merr.	Itom-itom
	Diospyros philippinensis A. DC	O-oi
	Diospyros pilosanthera Blanco	Bolong-eta
	Diospyros pyrrhocarpa Miq.	Anang
ERICACEAE	*Rhododendron subsessile* Rendle	Ausip
FABRONIACEAE	*Merrilliobryum fabronioides* Broth.	–
GESNERIACEAE	*Agamyla bilirana* Hilliard & BL Burtt	Biliran lipstick plant
GRAMINEAE	*Danthonia oreoboloides* (F Muell.) Stapf	Pulag carpet grass
LAURACEAE	*Cinnamomum oroi* Quisumb.	Oro kalingag
	Cryptocarya palawanensis Merr.	Paren
	Litsea leytensis Merr.	Batikuling
LEGUMINOSAE	*Afzelia rhomboidea* (Blanco) Vidal	Tindalo
	Intsia bijuga (Colebr.) Kuntze	Ipil

	Kingiodendron alternifolium (Elmer) Merr. & Rolfe	Batete
	Koompassia excelsa (Becc.) Taub.	Mangis
	Sindora supa Merr.	Supa
	Strongylodon macrobotrys A Gray	Jade Vine/Tayabak
	Sympetalandra densiflora (Elmer) Steen.	Kamatog
	Wallaceodendron celebicum Koord.	Banuyo
LEJEUNEACEAE	*Drepanolejeunea bakeri* Herzog	–
LYCOPODIACEAE	*Lycopodium halconense* Copel.	–
	Lycopodium magnusianum Herter	–
	Lycopodium phlegmaria L.	–
	Lycopodium salvinioides (Herter) Tagawa	–
	Lycopodium squarrosum G. Forst.	–
MELASTOMATACEAE	*Astrocalyx calycina* (Vidal) Merr.	Tanghau
	Beccarianthus ickisii Merr.	Ickis tungau
	Beccarianthus pulcherrimus (Merr.) Maxw.	Malintungau
	Medinilla banahaensis Elmer	Kalambog-lambog
	Medinilla calelanensis Elmer	Tiualos tatana
	Medinilla clementis Merr.	Gubangbang
	Medinilla compressicaulis Merr.	Salanakad
	Medinilla coronata Regalado	Pagirang
	Medinilla magnifica Lindl.	Kapa-kapa
	Medinilla palawanensis Regalado	Palawan medinilla
	Medinilla pendula Merr.	Baladu
	Medinilla stenobotrys Merr.	Lalanug
	Medinilla surigaoensis Regalado	Eastern Mindanao medinilla
	Medinilla tayabensis Merr.	Mt. Binuang medinilla
MELIACEAE	*Walsura monophylla* Merr.	Bukalau
MYRISTICACEAE	*Knema ridsdaleana* de Wilde	Ridsdale tambalau
	Myristica colinridsdalei de Wilde	Ridsdale duguan
MYRTACEAE	*Tristaniopsis littoralis* (Merr.) Peter G. Wilson & Waterhouse	Taba
	Xanthostemon fruticosus Peter G. Wilson & Co	Sierra Madre mangkono
	Xanthostemon speciosus Merr.	Palawan mangkono
	Xanthostemon verdugonianus Naves	Mangkono
NEPENTHACEAE	*Nepenthes bellii* Kondo	Kondo Pitcher plant
	Nepenthes burkei Masters	Burke Pitcher plant
	Nepenthes deaniana Macfarlane	Macfarlane Pitcher plant
	Nepenthes globamphora Sh Kurata & Toyoshima	Globamphora Pitcher plant
	Nepenthes petiolata Danser	Pitcher plant
	Nepenthes philippinensis Macfarlane	Pitcher plant
	Nepenthes truncata Macfarlane	Pitcher plant
	Nepenthes ventricosa Blanco	Pitcher plant
OPHIOGLOSSACEAE	*Ophioglossum pendulum* L.	Adder's tongue
ORCHIDACEAE	*Aerides lawrenciae* Reichb. f.	–
	Amesiella philippinensis (Ames) Garay	–
	Bulbophyllum stramineum Ames	–

	Bulbophyllum whitfordii Rolfe	–
	Coelogyne palawanense Ames	–
	Corybas laceratus Williams	–
	Corybas merrillii (Ames) Ames	–
	Corybas ramosianus J. Dransf.	–
	Cymbidium aliciae Quisumb.	–
	Cymbidium gonzalesii Quisumb.	–
	Dendrobium lunatum Lindl.	–
	Paphiopedilum ciliolare (Reichb. f.) Stein	–
	Phalaenopsis fasciata Reichb. *f.*	–
	Phalaenopsis gertrudeae Quisumb.	–
	Phalaenopsis hieroglyphica (Reichb. *f.*) Sweet	–
	Phalaenopsis intermedia Lindl.	–
	Phalaenopsis leucorrhoda Reichb. *f.*	–
	Phalaenopsis lindenii Loher	–
	Phalaenopsis lueddemanniana Reichb. *f.*	–
	Phalaenopsis pallens (Lindl.) Reichb. *f.*	–
	Phalaenopsis portei Reichb.*f.*	–
	Phalaenopsis pulchra (Reichb. *f.*) Sweet	–
	Phalaenopsis reichenbachiana Reichb. *f.* & Sander	–
	Phalaenopsis sanderiana Reichb. *f.*	–
	Phalaenopsis schilleriana Reichb. *f.*	–
	Phalaenopsis schiller-stuartiana Rolfe	–
	Phalaenopsis stuartiana Reichb. *f.*	–
	Phalaenopsis veitchiana Reichb. *f.*	–
	Phalaenopsis viratajj Quisumb.	–
	Vanda javierae Tiu ex Fessel & Leukel	–
	Vanda scandens Holltum	–
	Vanda luzonica Loher *ex* Rolfe	–
	Vanda merrilli Ames & Quisumb.	–
	Vandopsis davisii Ames & Quisumb.	–
	Vandopsis kupperiana Kraenzl.	–
	Vandopsis leytensis Ames	–
PALMAE	*Adonidia merrillii* (Becc.) Becc.	Manila Palm
	Areca camarinensis Becc.	Mono
	Calamus balerensis Fernando	Malatandurang parang
	Heterospathe brevicaulis Fernando	Marighoi-baba
	Oncosperma platyphyllum Becc.	Anibong
	Pinanga glaucifolia Fernando	Abiking-puti
	Pinanga sobolifera Fernando	–
	Salacca clemensiana Becc.	Lakaubi
PODOCARPACEAE	*Podocarpus costalis* C. Presl	Igem-dagat
	Podocarpus lophatus de Laubenf.	Igem-pugot
	Podocarpus palawanensis de Laubenf. & Silba	Palawan igem
	Podocarpus rotundus de Laubenf.	Igem-bilogan
POLYPODIACEAE	*Lecanopteris deparioides* (Cesati) Baker	Mahabac
	Lecanopteris lomarioides (Mett.) Copel.	Ant fern
	Lecanopteris luzonensis Hennip.	Ant fern
PTERIDACEAE	*Pteris endoneura* M. G. Price	–

ROSACEAE	*Prunus pulgarensis* (Elmer) Kalkm.	Gupit
	Prunus rubiginosa (Elmer) Kalkm.	Bakad pula
RUBIACEAE	*Boholia nematostylis* Merr.	–
	Mussaenda philippinensis Merr.	–
SAPINDACEAE	*Cubilia cubili* (Blanco) Adelb.	Kubili
	Dimocarpus longan Lour. ssp. & var. *malesianus* Leenh.	Alupag lalaki
	Dimocarpus longan Lour. ssp. *malesianus* Leenh. var. *echinatus* Leenh.	Alupag amo
	Gloeocarpus patentivalvis (Radlk.) Radlk.	Tamaho
	Guioa acuminata Radlk.	Pasi
	Guioa discolor Radlk.	Alahan-puti
	Guioa myriadenia Radlk.	Ulas
	Guioa truncata Radlk.	Uyos
	Litchi chinensis Sonn. ssp. *philippinensis* (Radlk.) Leenh.	Alupag
SAPOTACEAE	*Ganua monticola* (Merr.) H.J. Lam	Betis-bundok
	*Ganua obovatifolia (*Merr.) Assem	Pianga
	Madhuca betis (Blanco) McBride	Betis
	Madhuca oblongifolia (Merr.) Merr.	Malabetis
SELAGINELLACEAE	*Selaginella atimonanensis* B. C. Tan & Jermy	–
	Selaginella pricei B. C. Tan & Jermy	–
SIMAROUBACEAE	*Eurycoma longifolia* Jack ssp. *eglandulosa* (Merr.) Noot.	Linatog
TECTARIACEAE	*Heterogonium wenzelii* (Copel.) Holtt.	–
	Tectaridium macleanii Copel.	–
THELYPTERIDACEAE	*Chingia urens* Holtt.	–
VERBENACEAE	*Vitex parviflora* Juss.	Molave/Molawin
WOODSIACEAE	*Diplazium egenolfioides* M. G. Price	–
ZINGIBERACEAE	*Hedychium philippinense* K. Schum.	Dainsuli

CATEGORY C. Vulnerable Species

FAMILY NAME	SCIENTIFIC NAME	COMMON NAME
ACTINIDIACEAE	*Saurauia bontocensis* Merr.	Dagwey
ADIANTACEAE	*Adiantum cupreum* Copel.	Coppery maidenhair fern
	Adiantum mindanaense Copel.	Mindanao maidenhair fern
	Adiantum scabripes Copel.	Rough maidenhair fern
	Doryopteris cuspidata Copel.	–
ALANGIACEAE	*Alangium longiflorum* Merr.	Malatapay
ANACARDIACEAE	*Dracontomelon dao* (Blanco) Merr. & Rolfe	Dao
	Dracontomelon edule (Blanco) Skeels	Lamio

	Koordersiodendron pinnatum (Blanco) Merr.	Amugis
	Mangifera altissima Blanco	Pahutan
	Mangifera merrillii Mukherji	Pahong-liitan
	Mangifera monandra Merr.	Malapaho
	Semecarpus paucinervius Merr.	Ligas-ilanan
ANNONACEAE	*Dasymaschalon scandens* Elmer	Kalabuyo
	Mitrephora caudata Merr.	Lanutan-buntolan
	Mitrephora fragrans Merr.	Lanutan-banguhan
	Mitrephora lanotan (Blanco) Merr.	Lanotan
	Orophea creaghii (Ridley) Leonardia & Kessler	Tabingalang
	Orophea cumingiana Vidal	Mapatak
	Polyalthia elmeri Merr.	Bangar
	Polyalthia palawanensis Merr.	Palawan-lanutan
APOCYNACEAE	*Kibatalia elmeri* Woodson	Elmer pasnit
	Kibatalia merrilliana Woodson	Merrill pasnit
	Tabernaemontana cordata Merr.	Sakang-manok
AQUIFOLIACEAE	*Ilex palawanica* Loesen. *ex* Elmer	Palawan kalasan
ARACEAE	*Alocasia micholitziana* Sander	_
	Alocasia zebrine Schott *ex* van Houtte	Badiang
ARALIACEAE	*Arthrophyllum pulgarense* Elmer	Higin
ARAUCARIACEAE	*Agathis celebica* (Koord.) Ward	Palawan almaciga
	Agathis philippinensis Warb.	Almaciga
ASCLEPIADACEAE	*Hoya paziae* Kloppenburg	_
	Quisumbingia merrillii (Schltr.) Merr.	_
ASPLENIACEAE	*Asplenium nidus* L.	Pugad-lawin
	Asplenium vittaeforme Cav.	Dahu
BEGONIACEAE	*Begonia oxysperma* A. DC.	_
BIGNONIACEAE	*Radermachera coriacea* Merr.	_
BLECHNACEAE	*Blechnum fraseri* (A. Cunn.) Luerss.	_
CELASTRACEAE	*Glyptopetalum palawanense* Merr.	Palawan surag
COMBRETACEAE	*Terminalia macrantha* Merr. & Quisumb. *ex* Rojo	Bongoran
	Terminalia surigaensis Merr.	Dalinsoi
CYATHEACEAE	*Cyathea contaminans* (Wall.) Copel.	Tree Fern
	Cyathea elmeri (Copel.) Copel	Tree Fern
	Cyathea latipinnula Copel.	Tree Fern
	Cyathea oblique Copel.	Tree Fern
	Cyathea philippinensis Baker	Tree Fern
	Cyathea robinsonii Copel.	Tree Fern
	Cyathea rufopannosa Christ	Tree Fern
	Cyathea setulosa Copel.	Tree Fern

	Cyathea sibuyanensis Copel.	Tree Fern
	Cyathea zamboangana Copel.	Tree Fern
	Dicksonia mollis Holtt.	Tree Fern
DILLENIACEAE	*Dillenia reifferscheidia* Villar	Katmon-kalabau
DIPTERIDACEAE	*Dipteris lobbiana* (Blume) Moore	–
DIPTEROCARPACEAE	*Dipterocarpus gracilis* Blume	Panao
	Dipterocarpus hasseltii Blume	Hasselt's Panao
	Dipterocarpus kunstleri King	Broad-leafed apitong
	Shorea almon Foxw.	Almon
	Shorea contorta Vidal	White lauan
	Shorea falciferoides Foxw. ssp. *falciferoides*	Yakal-yamban
	Shorea negrosensis Foxw.	Red lauan
	Shorea polysperma (Blanco) Merr.	Tanguile
	Shorea seminis (de Vriese) Slooten	Mala-Yakal
	Vatica mangachapoi Blanco ssp. *mangachapoi*	Narig
	Vatica mangachapoi Blanco ssp. *obtusifolia* (Elmer) Ashton	Palawan narig
	Vatica maritima Slooten	Narig laot
EBENACEAE	*Diospyros curranii* Merr.	Malagaitmon
	Diospyros ferrea (Willd.) Bakh. var. *buxifolia* (Rottb.) Bakh.	Bantulinaw
	Diospyros mindanaensis Merr.	Ata-ata
EUPHORBIACEAE	*Balakata luzonica* (Vidal) Esser	Balakat-gubat
	Securinega flexuosa Muell.-Arg.	Anislag
FAGACEAE	*Lithocarpus apoensis* (Elmer) Rehd.	Apo oak
	Lithocarpus jordanae Laguna	Katiluk
GESNERIACEAE	*Aeschynanthus cuernosensis* Schltr.	Cuernos lipstick plant
	Aeschynanthus curvicalyx Mendum	Cleopatra's lipstick plant
	Aeschynanthus elmeri Mendum	Elmer's lipstick plant
	Aeschynanthus firmus Kraenzl.	Lanao lipstick plant
	Aeschynanthus littoralis Schltr.	Davao lipstick plant
	Aeschynanthus madulidii Mendum	Madulid's lipstick plant
	Aeschynanthus miniaceus BL Burtt & PJB Woods	Pamingkauan
	Aeschynanthus nervosus Schltr.	Chila
	Aeschynanthus ovatus Schltr.	Round-leafed lipstick plant
	Aeschynanthus pergracilis Kraenzl.	Slender lipstick plant
	Aeschynanthus truncatus Schltr.	Truncate lipstick plant
	Agamyla biflora (Elmer) Hilliard & BL Burtt.	Twin-flowered lipstick plant
	Agamyla calelanensis (Elmer) Hilliard & BL Burtt	Tasik-sa-lomot
	Agamyla glabra (Merr.) Hilliard & BL Burtt	Smooth lipstick plant
	Agamyla montistomasi Hilliard & BL Burtt	Benguet lipstick plant
	Agamyla parvilimba Hilliard & BL Burtt	Leyte lipstick plant
	Agamyla persimilis Hilliard & BL Burtt	Agusan lipstick plant
	Agamyla rotundiloba Hilliard & BL Burtt	Round-lobed lipstick plant
	Agamyla samarica Hilliard & BL Burtt	Samar lipstick plant
	Agamyla sibuyanensis Hilliard & BL Burtt	Sibuyan lipstick plant
	Agamyla urdanentensis (Elmer) Hilliard & BL Burtt	Balibadon

GUTTIFERAE	*Calophyllum laticostatum* PF Stevens	Thick-veined bitanghol
HAMAMELIDACEAE	*Embolanthera spicata* Merr.	Paningit
LAURACEAE	*Cinnamomum mercadoi* Vidal	Kalingag
	Cryptocarya ampla Merr.	Bagarilau
LEGUMINOSAE	*Cynometra inaequifolia* A. Gray	Dila-dila
	Pericopsis mooniana Thwaites	Makapilit
	Sindora inermis Merr.	Kayugalo
	Strongylodon elmeri Merr.	Bindanugan
LYCOPODIACEAE	*Lycopodium carinatum* Desv.	
MELASTOMATACEAE	*Medinilla dolichophylla* Merr.	Gunang
MELIACEAE	*Aglaia angustifolia* Miq.	Kaniuing kitid
	Aglaia cumingiana Turcz.	Alauihau
	*Aglaia edulis (*Roxb). Wall	Malasaging
	Aglaia rimosa (Blanco) Merr.	Balubar
	Aglaia smithii Koord.	Batukanag
	Aglaia tenuicaulis Hiern	Oksa
	*Aphanamis polystachya (*Wall.) RN Parker	Kangko
	Dyxosylum angustifolium (Merr.) Harms	Tarublang
	Dyxosylum oppositifolium F. Muell.	Kayatau
MORACEAE	*Artocarpus rubrovenius* Warb.	Kalulot
	Artocarpus treculianus Elmer	Pakak
MYRISTICACEAE	*Horsfieldia samarensis* de Wilde	Samar yabnob
OPHIOGLOSSACEAE	*Botrychium daucifolium* Wall.	Grape fern
	Botrychium lanuginosum Wall.	Grape fern
ORCHIDACEAE	*Aerides leeana* Reichb. f.	–
	Dendrobium sanderae Rolfe	–
	Epigeneium treacherianum Reichb. f. ex Hook. f.) Summerhayes	–
PALMAE	*Areca hutchinsoniana* Becc.	Pisa
	Areca ipot Becc.	Bungang-ipot
	Areca macrocarpa Becc.	Bungang lakihan
	Corypha microclada Becc.	Biliran buri
	Livistona robinsoniana Becc.	Kayabing
PANDANACEAE	*Sararanga philippinensis* Merr.	Bagaas (Panay), Abasanay (Waray)
POLYPODIACEAE	*Aglaomorpha acuminata* (Willd.) Hovenkamp	Libagod
	Aglaomorpha cornucopia (Copel.) Roos	–
	Aglaomorpha heraclea (Kunze) Copel.	Saraukong
	Aglaomorpha meyeniana (Hook.) Schott	–
	Aglaomorpha pilosa (Hook. & Bauer) Copel.	–
	Aglaomorpha splendens (Hook. & Bauer) Copel.	–
	Drynaria quercifolia (L.) J. Sm.	Pakpak-lawin

	Goniophlebium terrestre Copel.	
	Microsorum punctatum (L.) Copel.	Barauwai
	Microsorum sarawakense (Baker) Ching	–
	Microsorum scolopendria (Burm. *f.*) Copel.	Barawetku
	Pyrrosia splendens (C. Presl) Ching	Turko
PSILOTACEAE	*Psilotum complanatum* Sw.	Flat whisk fern
	Psilotum nudum (L.) Beauv.	Whisk fern
	Tmesipteris lanceolata Dang	–
PTERIDACEAE	*Taenitis cordatum* (Gaud.) Holtt.	–
RUBIACEAE	*Antherostele banahaensis* (Elmer) Bremek.	–
	Antherostele callophylla Bremek.	–
	Antherostele grandistipula (Merr.) Bremek.	–
	Antherostele luzoniensis (Merr.) Bremek.	–
	Badusa palawanensis Ridsd.	Palawan palak
	Mussaenda acuminatissima Merr.	Katudai
	Mussaenda attenuifolia Elmer	Bungag
	Mussaenda chlorantha Merr.	–
	Mussaenda setosa Merr.	Sigidago
	Myrmephytum beccarii Elmer	Sibuyan ant plant
	Myrmecodia tuberosa Jack	Burebid
	Villaria fasciculiflora Quisumb. & Merr.	Otto
RUTACEAE	*Zanthoxylum integrifoliolum* (Merr.) Merr.	Salai
SAPOTACEAE	*Palaquium luzoniense (*Fernandez-Villar) Vidal	Red nato/nato
	Palaquium mindanaense Merr.	Pinulog
	Palaquium philippense (Perr.) C. Robinson	Malak-malak
	Pouteria villamilii (Merr.) Baehni	Villamil nato/White nato
SELAGINELLACEAE	*Selaginella magnifica* Warb.	–
	Selaginella tamariscina (Beauv.) Spring	–
TECTARIACEAE	*Tectaria stalactica* M. G. Price	–
THELYPTERIDACEAE	*Chingia paucipaleata* Holtt.	–
	Chingia pricei Holtt.	–
	Christella subdentata Holtt.	–
	Coryphopteris squamipes (Copel.) Holtt.	–
	Cyclogramma auriculata (J. Sm.) Ching	–
VERBENACEAE	*Clerodendrum macrocalyx* H.J. Lam	–
	Clerodendrum mindorense Merr.	Bagab
WOODSIACEAE	*Cornopteris irigense* (Copel.) M. G. Price	–
	Diplazium costulisorum C. Presl	–
	Diplazium cultratum C. Presl	–
	Diplazium propinquum (Copel.) Alderw.	–
	Gymnocarpium oyamense (Baker) Ching	–
ZINGIBERACEAE	*Adelmeria paradoxa* (Ridley) Merr.	Parapat
	Leptosolena haenkei C. Presl	Banai

CATEGORY D. Other Threatened Species

FAMILY NAME	SCIENTIFIC NAME	COMMON NAME
BURSERACEAE	*Canarium luzonicum* (Blume) A.Gray	Piling-liitan
	Canarium ovatum Engl.	Pili
	Protium connarifolium (Perkins) Merr.	Marangub
DILLENIACEAE	*Dillenia fischeri* Merr.	Fischer Katmon
	Dillenia luzoniensis (Vidal) Martelli *ex* Durand & Jackson	Malakatmon
ELAEOCARPACEAE	*Elaeocarpus dinagatensis* Merr.	Dinagat-konakan
	Elaeocarpus gigantifolius Elmer	Nabol
EUPHORBIACEAE	*Antidesma obliquinervium* Merr.	Aniam
	Antidesma subolivaceum Elmer	Aniam-Gubat
	Drypetes palawanensis Pax & Hoffm.	Tombong-uak
	Macaranga congestiflora Merr.	Amublit
FAGACEAE	*Lithocarpus luzoniensis* (Merr.) Rehd.	Kilog
	Lithocarpus ovalis (Blanco) Rehd.	Mangasiriki
FLACOURTIACEAE	*Hydnocarpus alcalae* C DC	Dudua
	Xylosma palawanense Mendoza	Mansalay
GESNERIACEAE	*Monophyllaea longipes* Kraenzl.	North luzon one-leafed plant
	Monophyllaea merrilliana Kraenzl.	Sabongaiahon
LABIATAE	*Plectranthus apoensis* (Elmer) H Keng	Kalalapo-bulan
	Plectranthus merrilii H Keng	Bungbungtit
LAURACEAE	*Cinnamomum iners* Reinw. *ex* Blume	Clove cinnamon
	Eusideroxylon zwageri Teysm. & Binn.	Tambulian (Borneo iron wood)
	Persea philippinensis (Merr.) Elmer	Kulilisiau
LEGUMINOSAE	*Adenanthera intermedia* Merr.	Tanglin
	Entada rheedii Sprengel	Gugo
	Luzonia purpurea Elmer	Baloktot
	Parkia harbesonii Elmer	Butad
LOMARIOPSIDACEAE	*Lomagramma pedicellata* Copel.	–
MELIACEAE	*Aglaia aherniana* Perkins	Alamag
	Aglaia costata Elmer *ex* Merr.	Manabiog
	Sandoricum vidalii Merrill	Malasantol
MYRISTICACEAE	*Knema alvarezii* Merr.	Duhao
	Knema stenocarpa Warb.	Libago
	Myristica basilanica de Wilde	Basilan duguan
	Myristica frugifera de Wilde	–
	Myristica longipetiolata de Wilde	–
	Myristica philippensis Lamk.	Duguan

	Myristica pilosigemma de Wilde	_
MYRSINACEAE	*Ardisia romanii* Elmer	Roman tagpo
MYRTACEAE	*Kania microphylla* (Quisumb. & Merr.) Peter G. Wilson	Tigang-liitan
	Kania urdanetensis (Elmer) Peter G. Wilson	Sambulanan
	Metrosideros halconensis (Merr.) Dawson	Magadhan
	Syzygium cagayanense (Merr.) Merr.	Amtuk
	Syzygium ciliato-setosum (Merr.) Merr.	Lakangan
	Syzygium densinervium (Merr.) Merr.	Salakadan
	Syzygium panduriforme (Elmer) Merr.	Lauig-lauigan
	Syzygium subrotundifolium (C. Robinson) Merr.	Kalogkog-dagat
PANDANACEAE	*Pandanus basilocularis* Martelli	Olango
POLYPODIACEAE	*Arthromeris proteus* (Copel.) Tagawa	_
	*Christopteris sagitta (*Christ) Copel.	Cacam-cam
RHAMNACEAE	*Ziziphus hutchinsonii* Merr.	Lumuluas
	Ziziphus talanai (Blanco) Merr.	Balakat
ROSACEAE	*Prunus subglabra* (Merr.) Kalkm.	Kanumog
	Rosa luciae Franch. & Rochbr. *ex* Crepin	Kuyaob
	Rosa transmorrisonensis Hayata	Pauikan
	Rubus heterosepalus Merr.	Tukong
SAPINDACEAE	*Guioa bicolor* Merr.	Kaninging
SYMPLOCACEAE	*Symplocos polyandra* (Blanco) Brand.	Balakbakan
TECTARIACEAE	*Tectaria adenophora* Copel.	_
URTICACEAE	*Astrothalamus reticulatus* (Wedd.) C Robinson	Lapnai
WOODSIACEAE	*Diplazium calliphyllum* (Copel.) M. G. Price	_
	Diplazium macrosorum (Copel.) M. G. Price	_
	Diplazium sibuyanense (Copel.) Alderw.	_
	Diplazium vestitum C. Presl	_
ZINGIBERACEAE	*Vanoverberghia sepulchrei* Merr.	Agbab

List of Other Wildlife Species

FAMILY NAME	SCIENTIFIC NAME	COMMON NAME
ASPLENIACEAE	*Asplenium mantalingahanum* P.M. Zamora & Co	
BEGONIACEAE	*Begonia alba* Merr.	_
	Begonia angilogensis Merr.	_
	Begonia casiguranensis Merr.	_
	Begonia castilloi Merr.	_
	Begonia caudata Merr.	_

	Begonia chloroneura P. Wilkie & Sands	–
	Begonia collisiae Merr.	–
	Begonia coronensis Merr.	Coron begonia
	Begonia edanoi Merr.	–
	Begonia elatostematoides Merr.	–
	Begonia esculenta Merr.	–
	Begonia gitingensis Elmer	Guiting-guiting begonia
	Begonia isabelensis Quisumb. & Merr.	Isabela begonia
	Begonia lacera Merr.	–
	Begonia lancifolia Merr.	–
	Begonia longibracteata Merr.	–
	Begonia longinoda Merr.	–
	Begonia obtusifolia Merr.	–
	Begonia palawanensis Merr.	–
	Begonia panayensis Merr.	–
	Begonia parva Merr.	–
	Begonia perryae L.B. Smith & Wasshausen	–
	Begonia rubrifolia Merr.	–
	Begonia rufipila Merr.	–
	Begonia samarensis Merr.	–
	Begonia sarmentosa L.B. Smith & Wasshausen	–
	Begonia subtruncata Merr.	–
	Begonia urdanetensis Merr.	–
	Begonia wadei Merr. & Quisumb.	–
	Begonia weberi Merr.	–
	Begonia zamboangensis Merr.	–
COMPOSITAE	*Merrittia benguetensis* (Elmer) Merr.	Agakob
CORNACEAE	*Mastixia macrocarpa* Matthew	Apanit-lakibunga
DENNSTAEDTIACEAE	*Dennstaedtia articulata* Copel.	–
	Dennstaedtia fusca Copel.	–
	Dennstaedtia macgregorii Copel.	–
	Dennstaedtia williamsii Copel.	–
	Lindsaea apoensis Copel.	–
	Lindsaea ramosii Copel.	–
	Microlepia protracta Copel.	–
DILLENIACEAE	*Dillenia megalantha* Merr.	Katmon-bayani
	Dillenia philippinensis Rolfe	Katmon
DRYOPTERIDACEAE	*Dryopteris polita* Rosenst.	–
	Dryopteris uropinna M. G. Price	–
	Polystichum copelandii (Christ) *Copel.*	–
	Polystichum elmeri Copel.	–
	Polystichum fuscum Copel.	–
	Polystichum nudum Copel.	–
	Psomiocarpa apiifolia C. Presl	–
EUPHORBIACEAE	*Aporosa elliptifolia* Merr.	Apnong-tilos
	Baccaurea odoratissima Elmer	Dilak-banguhan
	Macaranga caudatifolia Elmer	Daha

FAGACEAE	*Castanopsis philipensis* (Blanco) Vidal	Philippine chestnut
	Quercus merrillii Seem.	Pungo-pungo
FLACOURTIACEAE	*Flacourtia rukam* Zoll. & Mor.	Bitongol
GRAMINEAE	*Aristida holathera* Domin	_
	Cephalostachyum mindorense Gamble	Bakto
	Chionachne biaurita Hackel	_
GRAMMITIDACEAE	*Acrosorus nudicarpus* P.M. Zamora & Co	_
	Calymmodon ordinatus Copel.	_
	Ctenopteris halconensis (Copel.) Copel.	_
	Ctenopteris matutumensis Copel.	_
	Ctenopteris negrosensis (Copel.) Copel.	_
	Ctenopteris pachycaula (Copel.) Copel.	_
	Ctenopteris spongiosa (Copel.) Copel.	_
	Grammitis bulbotricha (Copel.) M. G. Price	_
	Grammitis loheriana (Christ) *Copel.*	_
	Grammitis microtricha Copel.	_
	Prosaptia ancestralis Copel.	_
	Xiphopteris apoensis Copel.	_
HYMENOPHYLLACEAE	*Hymenophyllum bartlettii* (Copel.) Morton	Filmy Fern
	Hymenophyllum bicolanum Copel.	Filmy Fern
	Hymenophyllum bontocense Copel.	Filmy Fern
	Hymenophyllum campanulatum Christ	Filmy Fern
	Hymenophyllum edanoi (Copel.) Morton	Filmy Fern
	Hymenophyllum pulchrum Copel.	Filmy Fern
	Hymenophyllum ramosii Copel.	Filmy Fern
	Hymenophyllum reductum Copel.	Filmy Fern
	Hymenophyllum vittatum Copel.	Filmy Fern
	Trichomanes acutum C. Presl (=Crepidomanes)	Filmy Fern
	Trichomanes crassum Copel.	Filmy Fern
	Trichomanes gracillinum Copel.	Filmy Fern
	Trichomanes zamboanganum (Copel.) Morton	Filmy Fern
LINDSAEACEAE	*Tapeinidum acuminatum* Kramer	_
LOMARIOPSIDACEAE	*Elaphoglossum apoense* Holtt.	_
	Elaphoglossum basilanicum Copel.	_
	Elaphoglossum calanasanicum Holtt.	_
	Elaphoglossum negrosensis Holtt.	_
	Lomagramma cordata Copel.	_
MATONIACEAE	*Matonia foxworthyi* Copel.	_
MELIACEAE	*Aglaia grandis* Korth. *ex* Miq.	Barongisan
	Aglaia korthalsii Miq.	Korthal gisihan
	Aglaia lancilimba Merr.	Tapuyi
	Aglaia lepthantha Merr.	Gisihan
	Aglaia leucophylla King	Bubunau
	Aglaia luzoniensis (Vidal) Merr. & Rolfe	Kuling-manuk
	*Aglaia malaccensis (*Ridley) Pannel	Malacca kato
	Aglaia oligophylla Miq.	Ansa

	Aglaia pachyphylla Miq.	Tukang-kalau
	Aglaia palembanica Miq.	Gasatin
	Aglaia rubiginosa (Hiern) Pannel	
	Aglaia sexipetala Griff.	Basinau
	Aglaia squamulosa King	Bugalbal-pula
	Aglaia silvestris (M. Roemer) Merr.	Salamingal
	*Aglaia teysmanniana (*Miq.) Pannel	Teysmann kato
OLEANDRACEAE	*Oleandra benguetensis* Copel.	–
PALMAE	*Areca whitfordii* Becc.	Bungang gubat
PANDANACEAE	*Freycinetia sumatrana* Hemsl.	–
PERANEMACEAE	*Didymochlaena truncatula* (Sw.) J. Sm.	–
POLYPODIACEAE	*Microsorum membranifolia* (R. Br.) Ching	
PTERIDACEAE	*Pteris brevis* Copel.	
	Pteris dataensis Copel.	–
	Pteris distans J. Smith	–
	Pteris edanoi Copel.	–
	Pteris elmeri Christ	–
	Pteris loheri Copel.	–
	Pteris macgregorii Copel.	–
	Pteris melanorachis Copel.	–
	Pteris micracantha Copel.	–
	Pteris mucronulata Copel.	–
	Pteris ramosii Copel.	–
	Pteris squamipes Copel.	–
	Pteris taenitis Copel.	–
ROSACEAE	*Prunus clementis* (Merr.) Kalkm.	Dalisai
RUBIACEAE		
	Greeniopsis discolor Merr.	Pangalimanan
	Greeniopsis euphlebia Merr.	Buhon-buhon
	Greeniopsis megalantha Merr.	Hamagos
	Ixora palawanensis Merr.	Palawan santan
	Ixora tenuipedunculata Merr.	Suding
	Sulitia obscurinervia (Merr.) Ridsd.	–
SELAGINELLACEAE	*Selaginella apoensis* Hieron.	–
TECTARIACEAE	*Aenigmopteris mindanaensis* Holtt.	–
	Tectaria lobbii (Hook.) Copel.	–
THELYPTERIDACEAE	*Nannothelypteris aoristisora* (Harr.) Holtt.	–
	Nannothelypteris camarinensis Holtt.	–
	Nannothelypteris inaequilobata Holtt.	–
	Nannothelypteris nervosa (Fée) Holtt.	–
	Nannothelypteris philippina (C. Presl) Elmer	–
	Pronephrium bulusanicum (Holtt.) Holtt.	–
	Pronephrium clemensiae (Copel.) Holtt.	–

	Pronephrium diminutum (Copel.) Holtt.	–
	Pronephrium hosei (Baker) Holtt.	–
	Pronephrium solsonicum Holtt.	–
	Sphaerostephanos angustifolius (C. Presl) Holtt.	–
	Sphaerostephanos cartilagidens P. M. Zamora & Co	–
	Sphaerostephanos dichrotrichoides (Alderw.) Holtt.	–
	Sphaerostephanos fenixii Holtt.	–
	Sphaerostephanos hernaezii Holtt.	–
	Sphaerostephanos magnus (Copel.) Holtt.	–
	Sphaerostephanos major (Copel.) Holtt.	–
	Sphaerostephanos mindorensis Holtt.	–
	Sphaerostephanos polisianus Holtt.	–
	Sphaerostephanos spenceri (Christ) Holtt.	–
	Sphaerostephanos stenodontus (Copel.) Holtt.	–
	Sphaerostephanos tephrophyllus (Copel.) Holtt.	–
	Sphaerostephanos williamsii (Copel.) Holtt.	–
THYMELAEACEAE	*Aquilaria cumingiana (*Decne.) Ridley	Butlo
	Aquilaria malaccensis Lamk.	Agar wood
VITTARIACEAE	*Monogramma capillaris* Copel.	–
	Vittaria hecistophylla Copel.	–
	Vittaria pachystemma Christ	–
	Vittaria subcoriacea Christ	–
	Vittaria taeniophylla Copel.	–
WOODSIACEAE	*Athyrium stramineum* Copel.	–
	Diplazium bolsteri Copel.	–
	Diplazium geophilum (Copel.) Alderw.	–
	Diplazium symmetricum (Copel.) M. G. Price	–
	Diplazium tenuifolium (Copel.) M. G. Price	–

Philippine Fauna and Flora under CITES

APPENDIX, 2011

Philippine Fauna and Flora under CITES APPENDIX I

CLASS	ORDER	FAMILY	COMMON NAME	SCIENTIFIC NAME
MAMMALIA	Sirenia	Dugongidae	Dugong (=Sea Cow)	*Dugong dugon*
	Cetacea	Physeteridae	Sperm whale (=Cachelot) (=Pot whale) (=Spermacet whale)	*Physeter catodon*
		Balaenopteridae	Humpback whale (=Hump whale) (=Bunch) (=Hunchbacked whale)	*Megaptera novaeangliae*
			Minke Whale (=Northern Minke Whale) (=Little Piked Whale) (=Lesser Rorqual)	*Balaenoptera acutorostrata*
		Delphinidae	Irrawaddy Dolphin (=Snubfin Dolphin)	*Orcaella brevirostris*
			Indo-pacific Humpbacked Dolphin	*Sousa chinensis*
	Artiodactyla	Bovidae	Tamaraw	*Bubalus mindorensis*
		Cervidae	Calamian Deer (=Calamian Hog Deer)	*Axis calamianensis*
	Chiroptera	Pteropodidae	Giant Golden-crowned flying fox (=Golden-capped fruit bat)	*Acerodon jubatus*
			Panay flying-fox (=Panay Giant fruit bat) (=Panay Golden-capped fruit bat)	*Acerodon lucifer*
AVES	Falconiformes	Accipitridae	Philippine Eagle (=Great Philippine Eagle) (=Monkey-eating Eagle)	*Pithecophaga jefferyi*
		Falconidae	Peregrine Falcon (=Duck Hawk) (=Peregrine)	*Falco peregrinus*
	Galliformes	Phasianidae	Palawan Peacock Pheasant (=Napoleon's Peacock-Pheasant)	*Polyplectron napoleonis*
	Charadriiformes	Scolopacidae	Spotted Greenshank (=Nordmann's Greenshank)	*Tringa guttifer*
	Columbiformes	Columbidae	Nicobar pigeon (=Nicobar Dove)	*Caloenas nicobarica*
			Mindoro Imperial Pigeon (=Mindoro Zone-Tailed Pigeon)	*Ducula mindorensis*
	Psittaciformes	Cacatuidae	Philippine Cockatoo (=Red-vented Cockatoo	*Cacatua haematuropygia*
	Stringiformes	Strigidae	Giant Scops Owl (=lesser Eagle Owl) (=Mindanao Eagle Owl)	*Mimizuku gurneyi*
	Passeriformes	Pittidae	Koch's Pitta (Whiskered Pitta)	*Pitta kochi*
	Piciformes	Picidae	White-bellied Woodpecker	*Dryocopus javensis*
			Tristram's Woodpecker	*Dryocopus javensis richardsi*
REPTILIA	Testudinata	cheloniidae	Green Turtle	*Chelonia mydas*
			Hawksbill Turtle	*Eretmochelys imbricata*
			Pacific Hawksbill Turtle	*Eretmochelys imbricata bissa*
			Atlantic Hawksbill Turtle	*Eretmochelys imbricata imbricate*
			Olive-ridley Turtle	*Lepidochelys olivacea*
			Loggerhead Turtle	*Caretta caretta*
		Dermochelyidae	Leatherback turtle (=Leathery Turtle) (=Luth) (=Trunkback turtle)	*Dermochelys coriacea*
	Crocodylia	Crocodylidae	Philippine crocodile	*Crocodylus mindoreosis*
			Salt –water Crocodile (=Estaurine Crocodile)	*Crocodylus porosus*
INSECTA	lepidoptera	Papilionidae	Luzon Peacock Swallowtail	*Papilio chikae*
FLORA		orchidaceae	Lady's Slipper	*Paphiopedilum acmodontum*

				Paphiopedilum adductum *Paphiopedilum anitum* *Paphiopedilum argus* *Paphiopedilum ciliolare* *Paphiopedilum fowliei* *Paphiopedilum haynaldianum* *Paphiopedilum hennisianum* *Paphiopedilum philippinense* *Paphiopedilum philippinense roebelenii* *Paphiopedilum randsii* *Paphiopedilum urbanianum* *Paphiopedilum usitanum*

Source: CITES Website and PAWB Website (Accessed in April 2011)

Protected Areas under the NIPAS Act in the Philippines (as of June, 2011)

Protected Areas under the NIPAS Act in the Philippines (as of June, 2011)

Region		Total			Terrestrial			Marine		
		No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)
CAR	**Total**	**7**	**141,427.00**	**-**	**7**	**141,427.00**	**-**	**0**	**-**	**-**
	National Parks (4)		***18,457.00***	**-**		***18,457.00***	**-**		**-**	**-**
	1. Cassamata Hill NP**	1	57.00	-	1	57.00	-	-	-	-
	2. Baguio-Bontoc Scenic NP	1	5,512.00	-	1	5,512.00	-	-	-	-
	3. Mt. Pulog NP**	1	11,550.00	-	1	11,550.00	-	-	-	-
	4. Balbalasang-Balbalan NP**	1	1,338.00	-	1	1,338.00	-	-	-	-
	Watershed Forest Reserve (2)		***45,409.00***	-		***45,409.00***	-	-	-	-
	1. Lower Agno WFR**	1	39,304.00	-	1	39,304.00	-	-	-	-
	2. Marcos Hi-way WFR**	1	6,105.00	-	1	6,105.00	-	-	-	-
	Resource Reserve (1)		***77,561.00***	-		***77,561.00***	-	-	-	-
	1. Upper Agno River Basin Resource Reserve*	1	77,561.00	-	1	77,561.00	-	-	-	-
1	**Total**	**14**	**23,082.81**	**3,465.52**	**13**	**12,569.51**	**3,329.88**	**1**	**10,513.30**	**135.64**
	National Parks (2)		***1,656.00***	-		***1,656.00***	-	-	-	-
	1. Paoay Lake NP*	1	340.00	-	1	340.00	-	-	-	-
	2. Northern Luzon Heroes Hill NP*	1	1,316.00	-	1	1,316.00	-	-	-	-
	Waterhed Forest Reserve (4)		***2,971.00***	-		***2,971.00***	-	-	-	-
	1. Ilocos Norte Metro WFR*	1	2,815.00	-	1	2,815.00	-	-	-	-
	2. Santa WFR*	1	25.00	-	1	25.00	-	-	-	-
	3. Tanap WFR*	1	41.00	-	1	41.00	-	-	-	-
	4. Naguilian Watershed Reservation*	1	90.00	-	1	90.00	-			
	Natural Monument/Landmark (1)		***693.32***	***427.79***		***693.32***	***427.79***		**-**	**-**
	1. Bessang Pass Natural Monument/Landmark***	1	693.32	427.79	1	693.32	427.79		-	-
	Protected Landscape (5)		***3,449.19***	***965.09***		***3,449.19***	***965.09***		**-**	**-**
	1. Manleluag Spring Protected Landscape*	1	1,935.17	965.09	1	1,935.17	965.09			
	2. Lidlidda Protected Landscape*		1,157.44	-	1	1,157.44	-		-	-

Region		Total			Terrestrial			Marine		
		No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)
	3. Sta. Lucia Protected Landscape*	1	174.16	-	1	174.16	-		-	-
	4. Libunao Protected Landscape*	1	46.70	-	1	46.70	-		-	-
	5. Bigbiga Protected Landscape*	1	135.71	-	1	135.71	-		-	-
	Protected Landscape and Seascape (1)		***10,513.30***	***135.64***		-	-		***10,513.30***	***135.64***
	1. Agoo-Damortis PLS	1	10,513.30	135.64		-	-	1	10,513.30	135.64
	Natural Park (1)		***3,800.00***	***1,937.00***		***3,800.00***	***1,937.00***		-	***0.00***
	1. Kalbario-Patapat Natural Park***	1	3,800.00	1,937.00	1	3,800.00	1,937.00		-	-
2	**Total**	**15**	**980,851.20**	**-**	**14**	**991,091.82**	**-**	**1**	**7,415.48**	**-**
	National Parks (2)		***832.90***			***819.00***			-	-
	1. Fuyot Springs National Park*	1	819.00	-	1	819.00	-		-	-
	2. Bangan Hill National Park***	1	13.90	-	1	13.90	-		-	-
	Wilderness Area (1)		***1,095.00***	-		***1,095.00***	-		-	-
	1. Isabela (Monte-Alto Timber	1	1,095.00	-	1	1,095.00	-		-	-
	Watershed Forest Reserve (4)		***16,371.80***	-		***34,041.80***	-		-	-
	1. Dupax Watershed Reservation*	1	424.80	-	1	424.80	-		-	-
	2. Bawa WFR*	1	8,955.00	-	1	8,955.00	-		-	-
	3. Wangag WFR*	1	6,992.00	-	1	6,992.00	-		-	-
	4. Tumauini WFR***	1	17,670.00	-	1	17,670.00	-		-	-
	Protected Landscape and Seascape (2)		***332,359.58***	-		***332,359.58***	-		-	-
	1. Peñablanca Protected Landscape & Seascape*	1	118,781.58	-	1	118,781.58	-		-	-
	2. Batanes Protected Landscape & Seascape***	1	213,578.00	-	1	213,578.00	-		-	-
	Protected Landscape (3)		***256,614.88***	-		***256,614.88***	-		-	-
	1. Magapit Protected Landscape*	1	3,403.62	-	1	3,403.62	-		-	-
	2. Casecnan Protected Landscape*	1	88,846.80	-	1	88,846.80	-			
	3. Quirino Protected Landscape***	1	164,364.46	-	1	164,364.46	-		-	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	Natural Monument (1)		***6,675.56***	-		***6,675.56***	-		-	-
	1. Salinas Natural Monument*	1	6,675.56	-	1	6,675.56	-		-	-
	Natural Park (1)		***359,486.00***	-		***359,486.00***	-		-	-
	1. Northern Sierra Madre Natural Park*	1	359,486.00	-	1	359,486.00	-		-	-
	Marine Reserve (1)		***7,415.48***	-		-	-		***7,415.48***	-
	1. Palaui Island Marine Reserve***	1	7,415.48	-		-	-	1	7,415.48	-
3	**Total**	**23**	**226,989.70**	**-**	**22**	**219,421.70**	**-**	**1**	**7,568.00**	**-**
	National Parks (6)		***35,765.12***	-		***35,765.12***	-		-	-
	1. Minalungao NP**	1	2,018.00	-	1	2,018.00	-		-	-
	2. Biak-na-Bato NP** Historical Shrine & Tourist Spot	1	658.85		1	658.85			-	-
	3. Mt. Arayat NP**	1	3,715.23	-	1	3,715.23	-		-	-
	4. Bataan NP**	1	23,688.00	-	1	23,688.00	-		-	-
	5. Olongapo Naval Base Perimeter**	1	9.04	-	1	9.04	-		-	-
	6. Aurora Memorial Park**	1	5,676.00	-	1	5,676.00	-		-	-
	Game Refuge and Bird Sanctuary (1)		***12.35***	-		***12.35***	-		-	-
	1. Lake Malimanga Bird and Fish Sanctuary**	1	12.35	-	1	12.35	-		-	-
	Watershed Forest Reserve (10)		***167,223.00***	-		***167,223.00***	-		-	-
	1. Watershed Purposes of Mariveles (Palanas)**	1	325.00	-	1	325.00	-		-	-
	2. Olongapo WFR**	1	6,335.00	-	1	6,335.00	-		-	-
	3. Angat Watershed and Forest Range (Pilot)**	1	6,600.00	-	1	6,600.00	-			
	4. Talavera Watershed Reservation**	1	37,156.00	-	1	37,156.00	-			
	5. Pantabangan-Caranglan Watershed Reservation**	1	84,500.00	-	1	84,500.00	-			

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	6. Doña Remedios/ General Tinio Watershed**	1	20,760.00	-	1	20,760.00	-		-	-
	7. Calabgan WFR**	1	4,803.00	-	1	4,803.00	-		-	-
	8. Dipaculao WFR**	1	1,786.00	-	1	1,786.00	-		-	-
	9. Dibalo-Pingit-Zabali-Malayat WFR**	1	4,528.00	-	1	4,528.00	-		-	-
	10. Aurora Watershed Forest Reserve**	1	430.00	-	1	430.00	-		-	-
	Protected Landscape (5)		***16,421.23***	-		***16,421.23***	-		-	-
	1. Dinadiawan River Protected Landscape*	1	3,371.33	-	1	3,371.33	-			
	2. Amro River Protected Landscape*	1	6,471.08	-	1	6,471.08	-			
	3. Talaytay Protected Landscape*	1	3,526.29	-	1	3,526.29	-			
	4. Simbahan-Talagas Protected Landscape*	1	2,266.49	-	1	2,266.49	-			
	5. Roosevelt Protected Landscape*	1	786.04	-	1	786.04	-			
	Marine Reserve (1)		***7,568.00***	-		-	-		***7,568.00***	-
	1. Masinloc and Oyon Bay Marine Reserve***	1	7,568.00	-		-	-	1	7,568.00	-
4-A	**Total**	**20**	**134,736.20**	**-**	**17**	**134,306.20**	**-**	**3**	**430.00**	**-**
	National Parks (1)		***34,681.00***	-		***34,681.00***	-		-	-
	1. Unnamed NP, Wildlife Sanctuary ** and Game Preserve (P.D. 1636)	1	34,681	-	1	34,681				
	Wilderness Area (1)		***430.00***	-		-	-		***430.00***	-
	1. Island of Alibijaban**	1	430.00	-		-	-	1	430.00	-
	Watershed Forest Reserve (9)		***21,084.86***	-		***21,084.86***	-		-	-
	1. Marikina Watershed Reservation**(Amended) includes Pamitinan	1	18,365.86	-	1	18,365.86	-		-	-

Region		Total			Terrestrial			Marine		
		No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)
	2. Mulanay WFR**	1	26.00	-	1	26.00	-		-	-
	3. Infanta WFR**	1	384.00	-	1	384.00	-		-	-
	4. Polilio WFR**	1	130.00	-	1	130.00	-		-	-
	5. Lopez WFR**	1	418.00	-	1	418.00	-		-	-
	6. Calauag WFR**	1	328.00	-	1	328.00	-		-	-
	7. Alabat WFR**	1	688.00	-	1	688.00	-		-	-
	8. Tibiang-Damagandong Watershed**	1	280.00	-	1	280.00	-		-	-
	9. Binahaan River WFR**	1	465.00	-	1	465.00	-		-	-
	Mangrove Swamp Forest Reserve (2)		- - -	-		- - -	-		-	-
	1. Palsabangan River up to Mazintuto River Bacong River up to Sandoval Point Palay Point up to Malunay River Bondoc Peninsula Bondoc River in Aurora up to Pinamutangan Pon¥int, Bontoc Peninsula San Andres to Arena Point, Bondoc Peninsula	1		-				1	undetermined	
	2. Island of Polilio, Alabat, Cabelete, Jomalig Patnanongan, Kalotkot, Kalongkooan, Palasan, Calabao, Icol and San Rafael	1		-				1	undetermined	
	Protected Landscape (7)		***78,540.34***	-		***78,540.34***	-		-	-
	1. Taal Volcano Protected Landscape*	1	62,292.14	-	1	62,292.14	-		-	-
	2. Hinulugang Taktak Protected Landscape*	1	3.20	-	1	3.20	-		-	-

Region		Total			Terrestrial			Marine		
		No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)
	3. Mts. Banahaw- San Cristobal PL*	1	10,900.59	-	1	10,900.59	-		-	-
	4. Quezon Protected Landscape*	1	938.00	-	1	938.00	-		-	-
	5. Maulawin Spring Protected Landscape*	1	149.01	-	1	149.01	-		-	-
	6. Buenavista Protected Landscape*	1	284.27	-	1	284.27	-		-	-
	7. Mts. Palay-palay-Mataas-na-Gulod*	1	3,973.13	-	1	3,973.13	-		-	-
4-B	**Total**	**23**	**1,583,498.20**	**11,677.00**	**15**	**1,181,426.44**	**-**	**8**	**402,071.76**	**11,677.00**
	National Parks (2)		***97,100.00***	-		***97,100.00***	-		-	-
	1. Naujan Lake NP**	1	21,655.00	-	1	21,655.00	-		-	-
	2. Mts. Iglit Baco NP**	1	75,445.00	-	1	75,445.00	-		-	-
	Game Refuge and Bird Sanctuary (3)		***886,799.81***	-		***886,799.81***	-		-	-
	1. Calavite and F.B. Harrison **	1	121,983.81	-		-	-		-	-
	2. Palawan GRBS**	1	761,416.00	-		-	-		-	-
	3. Calauit Island Game Preserve and Wildlife Sanctuary**	1	3,400.00	-	1	3,400.00	-		-	-
	Watershed Forest Reserve (4)		***10,775.00***	-		***10,775.00***	-		-	-
	1. Torrijos WFR**	1	105.00	-	1	105.00	-		-	-
	2. Palawan Flora, Fauna and WFR (Parcel 1)**	1	4,776.00	-	1	4,776.00	-		-	-
	3. Calatrava, San Andres, San Agustin Watershed Forest Reserve**	1	2,670.00	-	1	2,670.00	-		-	-
	4. Palawan Flora, Fauna and WFR (Parcel 2)**	1	3,224.00	-	1	3,224.00	-		-	-
	Mangrove Swamp Forest Reserve (4)		- - -			- - -			- - -	
	1. Entire Province of Palawan**	1						1	undetermined	
	2. Sibuyan Island**							1	undetermined	

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	3. Mangrove areas along the banks of Mamburao River Buluangan River to Lagarum River, Naujan** Mangrove area in the banks of Batel Creek, Sta. Cruz Sablayan Point up to the mouth of Bagong Sabang River Bo. Labangan to Calalayuan Point, Ilin Island Mangroves at the western side of Sukol River Bongabong Mangroves at the wetter side of Casiliga River Island of Soguicay	1						1	undetermined	
	4. Island of Sta. Cruz and Salomaque Foreshoreline of Bo. Dapdap and Alao up to the mouth of Tagum River Malinoa Creek up to Salomaque Point Foreshoreline of Bo. Cabuyagan to the eastern side of Dating Bayan River	1						1	undetermined	
	Wildlife Sanctuary (3)		***28,827.15***	-		***28,827.15***	-		-	-
	1. Mt. Calavite Wildlife Sanctuary*	1	18,016.19	-	1	18,016.19	-		-	-
	2. Marinduque Wildlife Sanctuary***	1	8,827.96	-	1	8,827.96	-		-	-
	3. Rasa Island Widlife Sanctuary*	1	1,983.00	-	1	1,983.00	-		-	-
	Natural Park (4)		***150,289.48***	***11,677.00***		***37,467.48***	-		***112,822.00***	***11,677.00***
	1. Mt. Guiting-Guiting Natural Park***	1	15,265.48	-	1	15,265.48	-			
	2. Apo Reef Natural Park***	1	15,792.00	11,677.00		-	-	1	15,792.00	11,677.00

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	3. Puerto Princesa Subterranean River NP*	1	22,202.00	-	1	22,202.00	-		-	-
	4. Tubbataha Reefs Natural Park*	1	97,030.00	-		-	-	1	97,030.00	-
	Managed Resource Protected Area (1)		***89,134.76***	-		-	-		***89,134.76***	-
	1. El Nido Managed Resource Protected Area*	1	89,134.76	-		-	-	1	89,134.76	-
	Protected Landscape/Seascape (1)		***200,115.00***	-		-	-		***200,115.00***	-
	1. Malampaya Sound PLS***	1	200,115.00	-		-	-	1	200,115.00	-
	Protected Landscap (1)		***120,457.00***	-		***120,457.00***	-		-	-
	1. Mt. Mantalingahan PL***	1	120,457.00	-	1	120,457.00	-		-	-
NCR	**Total**	**1**	**22.70**	-	**1**	**22.70**		**0**	-	-
	National Parks (1)		***22.70***	-		***22.70***	-		-	-
	1. Quezon Memorial Ninoy Aquino Parks & Wildlife Center*	1	22.70	-	1	22.70	-		-	-
5	**Total**	**25**	**58,507.89**	-	**11**	**57,798.17**	-	**14**	**709.72**	-
	National Parks (2)		***366.40***	-		***366.40***	-		-	-
	1. Caramoan NP**	1	347.00	-	1	347.00	-		-	-
	2. Libmanan Caves**	1	19.40	-	1	19.40	-		-	-
	Wilderness Area (4)		***226.63***	-		-	-		***226.63***	-
	1. Island of Basot, Quinalang and Malabungot*	1	185.38	-		-	-	1	185.38	-
	2. Island of Guinauyan, Naro*, Chico*, and Pobre	1	23.25	-				1	23.25	
	3. Island of Majaba and Napayuan**	1	18.00	-				1	18.00	-
	4. Island of Dampalit**			-				1	undetermined	
	Watershed Forest Reserve (3)		***26,806.00***	-		***26,806.00***	-		-	-
	1. Catanduanes WFR**	1	26,010.00	-	1	26,010.00	-		-	-
	2. Dahican WFR**	1	44.00	-	1	44.00	-		-	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	3. Capalonga WFR**	1	752.00	-	1	752.00	-		-	-
	Mangrove Swamp Forest Reserve (6)		- - -			- - -			- - -	
	1. Mangrove areas from Del Pilar River to Palita Island, Bo. Salvacion and Dahican**	1						1	undetermined	
	2. Tanglar Point to Bicol River Mangroves along the banks of Looc River** Mangrove areas of Port Tambang including banks of Tambang River and Olas River Mangroves in Boo. Gibbous & Tarpon Mangroves along the banks of Salon River Mangroves along the banks of Delchi River, Buang Creek, Parusan River in Inuran Sapitan Mangroves along the banks of Sagnay River Quinabucasan Point to San Vicente Bay Northern Bank of Camia River up Bo. Binahian Caragaray Pass to Gimbal Pt. in Caragay Island Island of Lahay, Lucsuhin, Haponan Quinabungan, Malabungot, Lamit and Batan	1						1	undetermined	
	3. Pigbucan to Paron Point**	1						1	undetermined	

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	4. Putiao River to Malbog River** Getumbro Point up to the Municipality of Sorsogon Malazimbo Point to the Municipality of Juban in Sorsogon Bay Mangroves along banks of Donsol River Papucha Point in Sugot up to Bo. Quidolog, Prieto Diaz boundaries divided into 2 quadrants (a) Sta. Lucia to Buenavista (b) Buenavista to Dingay Point Panuntingan Point in Gubat up to Tagdon River in Barcelona Sinagatan Bay to Mantay Point in Ginablan	1						1	undetermined	
	5. Malaquing River up to Mabung River** Cueva Point up to Kimartines Point Kabugao Point up to Kabalog Andang Point	1						1	undetermined	
	6. Basin Island**	1						1	undetermined	
	Natural Park (5)		***25,005.77***	**-**		***24,761.05***	**-**		***244.72***	**-**
	1. Mt. Isarog Natural Park*	1	10,112.35	-	1	10,112.35	-		-	-
	2. Bicol Natural Park*	1	5,201.00	-	1	5,201.00	-		-	-
	3. Bulusan Volcano Natural Park*	1	3,672.00	-	1	3,672.00	-		-	-
	4. Mayon Volcano Natural Park*	1	5,775.70	-	1	5,775.70	-		-	-
	5. Bongsalay Natural Park*	1	244.72	-		-	-	1	244.72	-
	Wildlife Sanctuary (2)		***117.75***	**-**		-	-		***117.75***	**-**

Region		Total			Terrestrial			Marine		
		No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)	No.	Protected Area (ha)	Buffer Zone (ha)
	1. Chico Island Wildlife Sanctuary*	1	7.77	-		-	-	1	7.77	-
	2. Naro Island Wildlife Sanctuary*	1	109.98	-		-	-	1	109.98	-
	Protected Landscape/Seascape (1)		***120.62***	-		-	-		***120.62***	-
	1. Malabungot Protected Landscape & Seascape*	1	120.62	-		-	-	1	120.62	-
	Natural Biotic Area (2)		***5,864.72***	-		***5,864.72***	-		-	-
	1. Lagonoy Natural Biotic Area*	1	444.60	-	1	444.60	-		-	-
	2. Abasig-Matogdon Mananap NBA*	1	5,420.12	-	1	5,420.12	-		-	-
6	**Total**	**14**	**218,475.04**	**169.00**	**12**	**185,331.59**	**169.00**	**2**	**33,143.45**	**0.00**
	National Parks (2)		***1,997.78***	-		***854.33***			***1,143.45***	-
	1. Bulabog-Putian NP**	1	854.33	-	1	854.33	-		-	-
	2. Taklong Island National Marine Reserve**	1	1,143.45	-		-	-	1	1,143.45	-
	Watershed Forest Reserve (7)		***62,114.00***	-		***62,114.00***	-		-	-
	1. Pan-ay River WFR**	1	4,350.00	-	1	4,350.00	-		-	-
	2. Aklan River WFR**	1	23,185.00	-	1	23,185.00	-		-	-
	3. Jaluad River WFR**	1	9,228.00	-	1	9,228.00	-		-	-
	4. Ilog-Hilabangan WFR**	1	10,211.00	-	1	10,211.00	-		-	-
	5. Dalanas River WFR	1	8,558.00	-	1	8,558.00	-		-	-
	6. Kabangkalan WFR**	1	432.00	-	1	432.00	-		-	-
	7. Maasin WFR**	1	6,150.00	-	1	6,150.00	-		-	-
	Natural Park (4)		***122,363.26***	***169.0000***		***122,363.26***	***169.0000***		-	-
	1. Mt. Kanlaon Natural Park*	1	24,388.00	169.00	1	24,388.00	169.00		-	-
	2. Sibalom Natural Park*	1	5,511.47	-	1	5,511.47	-		-	-
	3. Northwest Panay Peninsula Natural Park***	1	12,009.29	-	1	12,009.29	-		-	-
	4. Northern Negros Natural Park *	1	80,454.50	-	1	80,454.50	-		-	-
	Marine Reserve (1)		***32,000.00***	-		-	-		***32,000.00***	-
	1. Sagay Marine Reserve***	1	32,000.00	-		-	-	1	32,000.00	-
7	**Total**	**19**	**95,095.30**		**7**	**84,773.15**		**12**	**10,322.15**	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	National Parks (1)		***57.50***	**-**		***57.50***	**-**		**-**	**-**
	1. Guadalupe Mabugnao Mainit Hot Spring NP**	1	57.50	-	1	57.50	-		-	-
	Game Refuge and Bird Santuary (1)		***920.00***	**-**		**-**	**-**		***920.00***	**-**
	1. Olango Island Wildlife Sanctuary**	1	920.00	-		-	-	1	920.00	-
	Wilderness Areas (3)		***254.00***	**-**		**-**	**-**		***254.00***	**-**
	1. Island of Bantayan**	1	-	-		-	-	1	undetermined	-
	2. Island of Catiil, Colangaman, Lomislis, Tabangdio, Tintinan and the Islet of Pamasuan	1	210.00	-		-	-	1	210.00	-
	3. Island of Budlanan Bugatusan Panga Cabgan, Canconstino, tabaon, Maagpit, and Islaet of Basihan, Bugatusan, Hayaan, Inanoran and Poom Point East of Basihan Islet	1	19.00	-		-	-	1	19.00	-
	Watershed Forest Reserve (2)		***23,040.00***			***23,040.00***			**-**	**-**
	1. Loboc WFR	1	19,410.00	-	1	19,410.00	-		-	-
	2. Alijawan-Cansuhay, Anibongan River WFR	1	3,630.00	-	1	3,630.00	-		-	-
	Mangrove Swamp Forest Reserve (3)		- - -	-		- - -	-		- - -	-
	1. Island of Ponson, Poro, Pacihan	1	-	-		-	-	1	undetermined	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	2. Island of Pamusuan, Handayan, Majanay Islets of Bonoon, Lapinig Pinahon and Lapinig Chico Mangrove areas east of Soom River Pangpang	1	-	-		-	-	1	undetermined	-
	3. Island of Ambugan, Pangangan, Cabilao and Sandigan Islet of Batas Mangrove areas east of Inabanga River to Bo. Pampang	1	-	-		-	-	1	undetermined	-
	Protected Landscape (2)		***39,514.60***	-		***39,514.60***	-		-	-
	1. Central Cebu Protected Landscape*	1	29,062.00	-	1	29,062.00	-		-	-
	2. Rajah Sikatuna Protected Landscape*	1	10,452.60	-	1	10,452.60	-		-	-
	Protected Landscape and Seascape (3)		***8,312.48***	-		-	-		***8,312.48***	-
	1. Talibon Group of Islands PLS*	1	6,456.87	-		-	-	1	6,456.87	-
	2. Alburquerque-Loay-Loboc PLS*	1	1,164.16	-		-	-	1	1,164.16	-
	3. Apo Island Protected Landscape/Seascape***	1	691.45	-		-	-	1	691.45	-
	Protected Seascape (2)		***835.67***	-		-	-		***835.67***	-
	1. Tañon Strait Protected Seascape**	1	450.00	-		-	-	1	450.00	-
	2. Panglao Island Protected Seascape*	1	385.67	-		-	-	1	385.67	-
	Natural Monument (1)		***14,145.00***	-		***14,145.00***			-	-
	1. Chocolate Hills Natural Monument***	1	14,145.00	-	1	14,145.00	-		-	-
	Natural Park (1)		***8,016.05***	-		***8,016.05***			-	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Balinsasayao Twin Lakes Natural Park***	1	8,016.05	-	1	8,016.05	-		-	-
8	**Total**	**11**	**453,162.78**	**125,400.00**	**7**	**346,722.78**	**125,400.00**	**4**	**106,440.00**	**-**
	National Parks (2)		***370.78***	-		***370.78***	-		-	-
	1. Mac Arthur Landing NP (Imelda Park)**	1	6.78	-	1	6.78	-		-	-
	2. Kuapnit Balinsasayao NP**	1	364.00	-	1	364.00	-		-	-
	Watershed Forest Reserve (1)		***2,392.00***			***2,392.00***	-		-	-
	1. Palompon WFR**	1	2,392.00	-	1	2,392.00	-		-	-
	Mangrove Swamp Forest Reserve (1)		-	-		-	-		-	-
	1. Mangrove areas along the coastline of Dupon Bay from Sacay Point up to the mouth of Dupon River Apali Point to Calunangan Point Puerto Bello to Lao Mangrove areas from Bo. Tuban and Bo. Manpagui in Santa Cruz	1	-	-		-	-	1	undetermined	-
	Natural Park (3)		***336,128.00***	***125,400.0000***		***336,128.00***	***125,400.0000***		-	-
	1. Mahagnao Volcano Natural Park*	1	635.00	-	1	635.00	-		-	-
	2. Samar Island NP*	1	333,300.00	125,400.00	1	333,300.00	125,400.00		-	-
	3. Lake Danao Natural Park***	1	2,193.00	-	1	2,193.00	-		-	-
	Protected Landscape (1)		***7,832.00***	-		***7,832.00***	-		-	-
	1. Calbayog-Pan-As Hayiban Protected Landscape*	1	7,832.00	-	1	7,832.00	-			
	Protected Landscape/Seascape (3)		***106,440.00***			-			***106,440.00***	

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Biri Larosa Protected Landscape/Seascape***	1	33,492.00	-		-	-	1	33,492.00	-
	2. Guiuan Protected Landscape/Seascape***	1	60,448.00	-		-	-	1	60,448.00	-
	3. Cuatro Islas Protected Landscape/Seascape***	1	12,500.00	-		-	-	1	12,500.00	-
9	**Total**	**13**	**293,966.31**	**16,593.27**	**6**	**20,926.54**	**8,693.05**	**7**	**273,039.77**	**7,900.22**
	Mangrove Swamp Forest Reserve (1)		- - -			- - -			- - -	
	1. Mangrove areas from the municipality of Tagalisay to the mouth of Tigbao River including east of Vitali Island**	1	-	-		-	-	1	undetermined	
	Natural Biotic Area (2)		***5,592.00***	***2,489.0000***		***5,592.00***	***2,489.0000***		**-**	**-**
	1. Buug Natural Biotic Area*	1	1,095.00	470.00	1	1,095.00	470.00		-	-
	2. Basilan Natural Biotic Area*	1	4,497.00	2,019.00	1	4,497.00	2,019.00		-	-
	Resource Reserve (1)		***793.74***	***186.6600***		***793.74***	***186.6600***		**-**	**-**
	1. Siocon Resource Reserve*	1	793.74	186.66	1	793.74	186.66		-	-
	Natural Park (1)		***12,107.00***	***5,307.0000***		***12,107.00***	***5,307.0000***		**-**	**-**
	1. Pasonanca Natural Park*	1	12,107.00	5,307.00	1	12,107.00	5,307.00		-	-
	Protected Landscape/Seascape (7)		***32,506.57***	***8,610.6130***		***2,433.80***	***710.3930***		***30,072.77***	***7,900.2200***
	1. Aliguay Island Protected Landscape/Seascape***	1	1,187.51	1,191.89		-	-	1	1,187.51	1,191.89
	2. Dumanquilas Protected Landscape/Seascape***	1	25,948.00	3,714.98		-	-	1	25,948.00	3,714.98
	3. Jose Rizal Memorial Protected Landscape*	1	439.00	15.00	1	439.00	15.00		-	-
	4. Great and Little Sta. Cruz Islands Protected Landscape & Seascape*	1	1,877.00	1,548.00		-	-	1	1,877.00	1,548.00
	5. Selinog Island Protected Landscape and Seascape***	1	960.27	1,294.35		-	-	1	960.27	1,294.35

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	6. Murcielagos Island Protected Landscape and Seascape***	1	100.00	151.00		-	-	1	100.00	151.00
	7. Mount Timolan Protected Landscape***	1	1,994.80	695.39	1	1,994.80	695.39		-	-
	Wildlife Sanctuary (1)		***242,967.00***			-	-		***242,967.00***	-
	1. Turtle Island Wildlife Sanctuary***	1	242,967.00	-		-	-	1	242,967.00	-
10	**Total**	**12**	**103,258.06**	**51,354.70**	**8**	**101,662.28**	**50,554.25**	**4**	**1,595.78**	**800.45**
	Watershed Forest Reserve (1)		***136.00***	-		***136.00***	-		-	-
	1. Mahugunao WFR**	1	136.00	-	1	136.00	-		-	-
	Mangrove Swamp Forest Reserve (2)		- - -	-		- - -	-		- - -	-
	1. Mangrove areas from Liangan River up to Lipatan River of the Municipality of Lapayan**	1	-	-		-	-	1	undetermined	-
	2. Bo. Bagumbang to Malautan River**	1	-	-		-	-	1	undetermined	-
	Natural Parks (5)		***99,232.66***	***50,371.35***		***99,232.66***	***50,371.35***		-	-
	1. Mt. Malindang Natural Park*	1	4,694.00	18,334.00	1	34,694.00	18,334.00		-	-
	2. Mt. Kitanglad Range Natural Park*	1	31,235.19	16,034.81	1	31,235.19	16,034.81		-	-
	3. Mt. Kalatungan Range NP*	1	21,247.73	13,891.50	1	21,247.73	13,891.50		-	-
	4. Mt. Balatukan Range Natural Park***	1	8,423.00	1,222.00	1	8,423.00	1,222.00		-	-
	5. Mt. Inayawan Range Natural Park***	1	3,632.74	889.04	1	3,632.74	889.04		-	-
	Protected Landscape (1)		***66.00***	-		***66.00***	-		-	-
	1. Mimbilisan Protected Landscape*	1	66.00	-	1	66.00	-		-	-
	Protected Landscape/Seascape (2)		***1,595.78***	***800.4500***		-	-		***1,595.78***	***800.4500***

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Baliangao Protected Landscape/Seascape***	1	295.00	-		-	-	1	295.00	-
	2. Initao-Libertad Protected Landscape & Seascape*	1	1,300.78	800.45		-	-	1	1,300.78	800.45
	Natural Monument (1)		***2,227.62***	***182.9030***		***2,227.62***	***182.9030***		**-**	**-**
	1. Timpoong and Hibok-hibok Natural Monument***	1	2,227.62	182.90	1	2,227.62	182.90		-	-
11	**Total**	**10**	**91,752.61**	**9,614.88**	**7**	**64,446.61**	**9,614.88**	**3**	**27,306.00**	**0.00**
	Watershed Forest Reserve (1)		***235.00***	**-**		***235.00***	**-**		**-**	**-**
	1. Malagos Watershed Reservation**	1	235.00	-	1	235.00	-		-	-
	Mangrove Swamp Forest Reserve (1)		- - -	-		- - -	-		- - -	-
	1. Mangrove areas from Baculin Point to lakud Point-Mangrove areas from Tanuip Point in Banao to Kinablangan Island Island of Samal **	1		-		-	-	1	undetermined	-
	Natural Park (1)		***54,974.48***	***9,078.12***		***54,974.48***	***9,078.12***		**-**	**-**
	1. Mt. Apo*	1	54,974.48	9,078.12	1	54,974.48	9,078.12		-	-
	Protected Landsscape (4)		***2,403.14***	***536.76***		***2,403.14***	***536.76***		**-**	**-**
	1. Mainit Hotspring Protected Landscape*	1	1,374.00	401.00	1	1,374.00	401.00		-	-
	2. Mati Protected Landscape*	1	914.26	135.76	1	914.26	135.76		-	-
	3. Baganga Protected Landscape*	1	114.88	-	1	114.88	-			
	4. Aliwagwag Protected Landscape***	1	10,491.33	420.60	1	10,491.33	420.60		-	-
	Protected Landscape and Seascape (3)		***27,306.00***	**-**		**-**	**-**		***27,306.00***	**-**

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Mabini Protected Landscape and Seascape*	1	6,106.00	-		-	-	1	6,106.00	-
	2. Pujada Bay Protected Landscape/Seascape***	1	21,200.00	-		-	-	1	21,200.00	-
	Wildlife Sanctuary (1)		***6,834.00***	-		***6,834.00***	-		-	-
	1. Mt. Hamiguitan Range Wildlife Sanctuary***	1	6,834.00	-	1	6,834.00	-		-	-
12	**Total**	**5**	**383,120.00**		**4**	**167,170.00**		**1**	**215,950.00**	
	Game Refuge and Bird Sanctuary (1)		***6,300.00***	-		***6,300.00***	-		-	-
	1. Lake Buluan**	1	6,300.00	-	1	6,300.00	-		-	-
	Watershed Forest Reserve (2)		***145,270.00***	-		***145,270.00***	-		-	-
	1. Libungan WFR**	1	52,820.00	-	1	52,820.00	-		-	-
	2. Allah WFR**	1	92,450.00	-	1	92,450.00	-		-	-
	Protected Seascape (1)		***215,950.00***	-		-	-		***215,950.00***	-
	1. Sarangani Bay Protected Seascape***	1	215,950.00	-		-	-	1	215,950.00	-
	Protected Landscape (1)		***15,600.00***	-		***15,600.00***	-		-	-
	1. Mt. Matutum Protected Landscape***	1	15,600.00	-	1	15,600.00	-		-	-
ARMM	**Total**	**11**	**184,297.55**	-	**10**	**184,297.55**	-	**1**	-	-
	National Parks (8)		***1,943.35***	-		***1,943.35***	-		-	-
	1. Mado Hotspring NP**	1	48.00	-	1	48.00	-		-	-
	2. Lake Butig NP**	1	68.00	-	1	68.00	-		-	-
	3. Lake Dapao NP**	1	1,500.00	-	1	1,500.00	-		-	-
	4. Pantuwaraya Lake**	1	20.00	-	1	20.00	-		-	-
	5. Rungkunan NP**	1	-	-	1	undetermined	-		-	-
	6. Salikata NP**	1	-	-	1	undetermined	-		-	-
	7. Mt. Dajo NP**	1	213.35	-	1	213.35	-		-	-
	8. Sacred Mountain NP**	1	94.00	-	1	94.00	-		-	-
	Watershed Forest Reserve (2)		***182,354.20***	-		***182,354.20***	-		-	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Lake Lanao Watershed Reservation**	1	180,460.00	-	1	180,460.00	-		-	-
	2. South Upi WFR**	1	1,894.20	-	1	1,894.20	-		-	-
	Mangrove Swamp Forest Reserve (1)		-	-		-	-		-	-
	1. Mangrove areas in Tumalong Bay, Baong River and Pongao Bay** Mangrove areas from Malubog including up to the municipality of Sambalawan including the Island of Pisan Island of Sagayapan Tintauan and Sacol	1	-	-		-	-	1	undetermined	-
13	**Total**	**11**	**369,440.12**	**4,360.57**	**5**	**90,525.99**	**4,360.57**	**6**	**278,914.13**	**-**
	Wilderness Area (3)		-	-		-	-		-	-
	1. Island of Lamagon, Cepaya and Corbeto**	1	-	-		-	-	1	Undetermined	-
	2. Island of Rasa**	1	-	-		-	-	1	Undetermined	-
	3. Island of Awasan, Cabilan,	1	-	-		-	-	1	Undetermined	-
	Watershed Forest Reserve (3)		***32,089.00***	-		***32,089.00***	-		-	-
	1. Surigao WFR**	1	967.00	-	1	967.00	-		-	-
	2. Andanan River WFR**	1	15,097.00	-	1	15,097.00	-		-	-
	3. Cabadbaran Watershed**	1	16,025.00	-	1	16,025.00	-		-	-
	Mangrove Swamp Forest Reserve (2)		-	-		-	-		-	-
	1. Island of Dinagat, Hikdop, Sibate, Hanigad**	1	-	-		-	-	1	undetermined	-
	2. Mangrove areas along the municipalities**	1	-	-		-	-	1	undetermined	-
	Wildlife Sanctuary (1)		***14,835.99***	***4,360.5690***		***14,835.99***	***4,360.5690***		-	-

Region		Total			Terrestrial			Marine		
		No.	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**	**No.**	**Protected Area (ha)**	**Buffer Zone (ha)**
	1. Agusan Marsh Wildlife Sanctuary***	1	14,835.99	4,360.57	1	14,835.99	4,360.57		-	-
	Protected Landscape/Seascape (1)		***278,914.13***	-		-	-		***278,914.13***	-
	1. Siargao Protected	1	278,914.13	-		-	-	1	278,914.13	-
	Watershed Forest Reserve (Other category) (1)		***43,601.00***	-		***43,601.00***	-		-	-
	1. Alamio, Buyaan, Carac-an, Panikian Rivers	1	43,601.00	-	1	43,601.00	-		-	-
TOTAL		**234**	**5,341,683.47**	**222,634.94**	**166**	**3,983,920.02**	**202,121.63**	**68**	**1,375,419.54**	**20,513.31**

Note: *Proclaimed initial components, **Unproclaimed initial components. ***Proclaimed additional components

Source: PAWB, DENR (June 2011)

Environmental Standards

Environmental Standards

(1) National Ambient Air Quality Guideline for Critical Pollutants

Pollutants	Short Term [a]			Long Term [b]		
	μ g/Nm^3	ppm	Average time	μ g/Nm^3	ppm	Average time
TSP[c]	230 [d]		24 hours	90	--	1 year [e]
PM10	150 [f]		24 hours	60	--	1 year [e]
Sulfur Dioxide [c]	180	0.07	24 hours	80	0.03	1 year
Nitrogen Dioxide	150	0.08	24 hours	--	--	--
Photochemical Oxidants as Ozone	140	0.07	1 hour	--	--	--
	60	0.03	8 hours	--	--	--
Carbon Monoxide	35,000	30	1 hour	--	--	--
	10,000	9	8 hours	--	--	--
Lead [g]	1.5	--	3 months [g]	1	--	1 year

Source: DAO No. 2000 – 81, Implanting Rules and Regulations for RA 8749

a : Maximum limits represented by ninety-eight percentile (98%) values not to exceed more than once a year.

b : Arithmetic mean.

c : SO_2 and Suspended Particulate matter are sampled once every six days when using the manual methods. A minimum of twelve sampling days per quarter or forty-eight sampling days each year is required for these methods. Daily sampling may be done in the future once continuous analyzers are procured and become available.

d : Limits for Total Suspended Particulate Matter with mass median diameter less than 25-50 μ m.

e : Annual Geometric Mean.

f : Provisional limits for Suspended Particulate Matter with mass median diameter less than 10 μ m and below until sufficient monitoring data are gathered to base a proper guideline.

g : Evaluation of this guideline is carried out for 24-hour averaging time and averaged over three moving calendar months. The monitored average value for any three months shall not exceed the guideline value.

(2) National Ambient Air Quality Standards for Source Specific Air Pollutants from Industrial Sources/Operations

Pollutants	Concentration [a]		Averaging Time
	μ g/Nm^3	ppm	(min.)
Ammonia	200	0.28	30
Carbon Disulfide	30	0.01	30
Chlorine and Chlorine compounds (as CL_2)	100	0.03	5
Formaldehyde	50	0.04	30
Hydrogen Chloride	200	0.13	30
Hydrogen Sulfide	100	0.07	30
Lead	20	--	30
Nitrogen Oxide	375	0.20	30
	260	0.14	60
Phenol	100	0.03	30
Sulfur Dioxide	470	0.18	30
	340	0.13	60
TSP	300	--	60
PM10	200	--	60
Antimony	20	--	30
Arsenic	20	--	30
Cadmium	10	--	30

Source: DAO No. 2000 – 81, Implanting Rules and Regulations for RA 8749

a : Maximum limits represented by ninety-eight percentile (98%) values not to exceed more than once a year.

(3) National Emission Standards for Source Specific Air Pollutants (NESSAP)

Pollutant	Applicable Source	Maximum Permissible Limits (mg/Nm^3)
Antimony and its compounds	Any source	10 as Sb
Arsenic and its compound	Any source	10 as As
Cadmium and its compound	Any source	10 as Cd
Carbon Monoxide	Any industrial source	500 as CO
Copper and its compound	Any industrial source	100 as Cu
Hydrofluoric Acid and Fluoride compound	Any source other than the manufacture of Aluminum from Alumina	50 as HF
Hydro1gen Sulfide	i) Geothermal power plant ii) Geothermal exploration and well-testing iii) Any source other than above i) and ii)	a, b c 7 as H_2S
Lead	Any source	10 as Pb
Mercury	Any source	5 as elemental Hg
Nickel and its compound except Nickel Carbonyl [d]	Any source	20 as Ni
Nitrogen Oxides	i) Manufacturing of Nitric Acid ii) Fuel burning steam generator Existing Source New Source - Coal-fired - Oil-fired iii) Any source other than i) and ii) Existing Source New Source	2,000 as NO_2 1,500 as NO_2 1,000 as NO_2 500 as NO_2 1,000 as NO_2 500 as NO_2
Particulates	i) Fuel burning equipment - Urban or industrial area - Other area ii) Cement Plant (kilns, etc.) iii) Smelting furnace iv) Other stationary source	 150 200 150 150 200
Phosphorus Pentoxide [e]	Any source	200 as P_2O_5

Sulfur Oxide	Existing Source - Manufacturing of sulfuric acid and sulfonation process - Fuel burning equipment - Other stationary source	 2,000 as SO_3 1,500 as SO_2 1,000 as SO_3
	New Source - Manufacturing of sulfuric acid and sulfonation process - Fuel burning equipment - Other stationary source	 1,500 as SO_3 700 as SO_2 200 as SO_3
Zinc and its compounds	Any source	100 as Zn

Source: DAO No. 2000 – 81, Implanting Rules and Regulations for RA 8749

a : All new geothermal power plants starting construction by 01 January 1995 shall control H2S emissions to not more than 150 g/GMW-Hr.

b : All existing geothermal power plants shall control H2S emissions to not more than 200 g/GMW-Hr.

c : Best available control technology for air emissions and liquid discharges. Compliance with air and water quality standards is required.

d : Emission limit of Nickel Carbonyl shall not exceed 0.5 mg/NCM.

(4) Water Classification

Class		Beneficial Uses
Class AA	Fresh Water	Public Water Supply Class I. This class is intended primarily for waters having watersheds which are uninhabited and otherwise protected and which require only approved disinfection in order to meet the National Standards for Drinking Water (NSDW) of the Philippines.
Class A		Public Water Supply Class II. For sources of water supply that will require complete treatment (coagulation, sedimentation, filtration and disinfection) in order to meet the NSDW.
Class B		Recreational Water Class I. For primary contact recreation such as bathing, swimming, skin diving, etc. (particularly those designated for tourism purposes).
Class C		1) Fishery Water for the propagation and growth of fish and other aquatic resources; 2) Recreational Water Class II (Boating, etc.) 3) Industrial Water Supply Class I (For manufacturing processes after treatment).
Class D		1) For agriculture, irrigation, livestock watering, etc. 2) Industrial Water Supply Class II (e.g. cooling, etc.) 3) Other inland waters, by their quality, belong to this classification.
Class SA	Sea Water	1) Waters suitable for the propagation, survival and harvesting of shellfish for commercial purposes; 2) Tourist zones and national marine parks and reserves established under Presidential Proclamation No. 1801; existing laws and/or declared as such by appropriate government agency; 3) Coral reef parks and reserves designated by law and concerned authorities.
Class SB		1) Recreational Water Class I (Areas regularly used by the public for bathing, swimming, skin diving, etc.); 2) Fishery Water Class I (Spawning areas for Chanos chanos or "Bangus" and similar species).
Class SC		1) Recreational Water Class II (e.g. boating, etc.); 2) Fishery Water Class II (Commercial and sustenance fishing); 3) Marshy and/or mangrove areas declared as fish and wildlife sanctuaries;
Class SD		1) Industrial Water Supply Class II (e.g. cooling, etc.); 2) Other coastal and marine waters, by their quality, belong to this classification.

Source: DAO No. 1990 – 34, Revised Water Usage and Classification Water Quality Criteria Amending Section Nos. 68 and 69, Chapter III of the 1978 NPCC Rules and Regulations

(5) Water Quality Criteria for Conventional and Other Pollutants Contributing to Aesthetics and Oxygen Demand for Fresh Waters [a]

Parameter, Unit	Class AA	Class A	Class B	Class C	Class D [b]
Color, PCU	15	50	C	c	c
Temperature, ΔT		3	3	3	3
Dissolved Oxygen [e] (Minimum), mg/L	5.0	5.0	5.0	5.0	3.0
5-Day 20℃ BOD, mg/L	1	5	5	7(10)	10(15)
Total Suspended Solids, mg/L	25	50	F	g	h
Total Dissolved Solids, mg/L	500 [i]	1,000 [i]	--	--	1,000 [i]
Surfactants (MBAS), mg/L	nil	0.2(0.5)	0.3(0.5)	0.5	--
Oil/Grease, mg/L	Nil	1	1	2	5
Nitrate as Nitrogen, mg/L	1.0	10	Nr	10 [j]	--
Phosphate as P, mg/L	Nil	0.1 [k]	0.2 [k]	0.4 [k]	--
Phenols, mg/L	Nil	0.002	0.005 l	0.02 i	--
Total Coliform, MPN/100 mL	50 [m]	1,000 [m]	1,000 [m]	5,000 [m]	--
Fecal Coliform, MPN/100 mL	20 [m]	100 [m]	200 [m]	--	--
Chloride as Cl, mg/L	250	250	--	350	--
Copper, mg/L	1.0	1.0	--	0.05 [o]	-

Source: DAO No. 1990 – 34, Revised Water Usage and Classification Water Quality Criteria Amending Section Nos. 68 and 69, Chapter III of the 1978 NPCC Rules and Regulations

a : Except as otherwise indicated, the numerical limits in Tables 1 and 3 are yearly average values. Values enclosed in parentheses are maximum values.

b : For irrigation purposes, SAR should have a minimum value of 8 and a maximum value not to exceed 18. Boron should not exceed 0.75 mg/L.

c : No abnormal discoloration from unnatural causes

d : The allowable temperature increase over the average ambient temperature for each month. This rise shall be based on the average of the maximum daily temperature readings recorded at the site but upstream of the mixing zone over a period of one (1) month.

e : Sampling taken between 9:00 AM and 4:00 PM

f : Not more than 30% increase

g : Not more than 30 mg/L increase

h : Not more than 60 mg/L increase

i : Do not apply if natural background is higher in concentration. The latter will prevail and will be used as baseline

j : Applicable only to lakes or reservoirs, and similarly impounded water

k : When applied to lakes or reservoirs, the Phosphate as P concentration should not exceed an average of 0.05 mg/L nor a maximum of 0.1 mg/L

l : Not present in concentrations to affect fish flavor/taste

m : These values refer to the geometric mean of the most probable number of coliform organism during a 3-month period and that the limit indicated shall not be exceeded in 20 percent of the samples taken during the same period

n : For spawning areas for Chanoschanos and other similar species

o : Limit is in terms of dissolved copper

Nil: Extremely low concentration and not detectable by existing equipment

--: Means the standard of these substances are not considered necessary for the present time, considering the stage of the country's development and DENR capabilities, equipment and resources

Nr: Means No Recommendation made

(6) Water Quality Criteria for Toxic and Other Deleterious Substances for Fresh Waters (For the Protection of Public Health)

Parameter, Unit	Class AA	Class A	Class B	Class C	Class D [b]
Arsenic, mg/L [i]	0.05	0.05	0.05	0.05	0.05
Cadmium, mg/L [i]	0.01	0.01	0.01	0.01	0.05
Chromium (hexavalent), mg/L [i]	0.05	0.05	0.05	0.05	--
Cyanide mg/L	0.05	0.05	0.05	0.05	--
Lead, mg/L [i]	0.05	0.05	0.05	0.05	--
Total Mercury, mg/L [i]	0.002	0.002	0.002	0.002	0.002
Organophosphate, mg/L	Nil	Nil	Nil	Nil	Nil
Aldrin, mg/L	0.001	0.001	--	--	--
DDT, mg/L	0.05	0.05	--	--	--
Dieldrin, mg/L	0.001	0.001	--	--	--
Heptachlor, mg/L	Nil	Nil	--	--	--
Lindane, mg/L	0.004	0.004	--	--	--
Toxaphane, mg/L	0.005	0.005	--	--	--
Methoxychlor, mg/L	0.10	0.10	--	--	--
Chlordane, mg/L	0.003	0.003	--	--	-
Endrin, mg/L	Nil	Nil			
PCB, mg/L	0.001	0.001			

Source: DAO No. 1990 – 34, Revised Water Usage and Classification Water Quality Criteria Amending Section Nos. 68 and 69, Chapter III of the 1978 NPCC Rules and Regulations

(7) Water Quality Criteria for Conventional and Other Pollutants Contributing to Aesthetics and Oxygen Demand for Coastal and Marine Waters [a]

Parameter, Unit	Class SA	Class SB	Class SC	Class SD [b]
Color, PCU	C	C	c	C
Temperature, ΔT	3	3	3	3
pH	6.5 – 8.5	6.0 – 8.5	6.0 – 8.5	6.0 – 9.0
Dissolved Oxygen [e] (Minimum), mg/L	5.0	5.0	5.0	2.0
5-Day 20℃ BOD, mg/L	3	5	7(10)	--
Total Suspended Solids, mg/L	F	g	g	H
Surfactants (MBAS), mg/L	0.2	0.3	0.5	--
Oil/Grease, mg/L	1	2	3	5
Nitrate as Nitrogen, mg/L	10	Nr	10 [j]	--
Phenols, mg/L	Nil	0.01	(1)	--
Total Coliform, MPN/100 mL	70 [m]	1,000 [m]	5,000 [m]	--
Fecal Coliform, MPN/100 mL	nil	200 [m]	--	--
Copper, mg/L	--	0.02 [no]	0.05 [o]	-

Source: DAO No. 1990 – 34, Revised Water Usage and Classification Water Quality Criteria Amending Section Nos. 68 and 69, Chapter III of the 1978 NPCC Rules and Regulations

(8) Water Quality Criteria for Toxic and Other Deleterious Substances for Coastal and Marine Waters (For the Protection of Public Health)

Parameter, Unit	Class SA	Class SB	Class SC	Class SD
Arsenic, mg/L [i]	0.05	0.05	0.05	--
Cadmium, mg/L [i]	0.01	0.01	0.01	--
Chromium (hexavalent), mg/L [i]	0.05	0.1	0.1	--
Cyanide mg/L	0.05	0.05	0.05	--
Lead, mg/L [i]	0.05	0.05	0.05	--
Total Mercury, mg/L [i]	0.002	0.002	0.002	--
Organophosphate, mg/L	Nil	Nil	Nil	--
Aldrin, mg/L	0.001	--	--	--
DDT, mg/L	0.05	--	--	--
Dieldrin, mg/L	0.001	--	--	--
Heptachlor, mg/L	Nil	--	--	--
Lindane, mg/L	0.004	--	--	--
Toxaphane, mg/L	0.005	--	--	--
Methoxychlor, mg/L	0.10	--	--	--
Chlordane, mg/L	0.003	--	--	-
Endrin, mg/L	Nil			
PCB, mg/L	0.001			

Source: DAO No. 1990 – 34, Revised Water Usage and Classification Water Quality Criteria Amending Section Nos. 68 and 69, Chapter III of the 1978 NPCC Rules and Regulations

(9) Effluent Standard: Toxic and Other Deleterious Substances

	Class AA & SA		Class B, C & SB		Class C		Class SC		Class SD	
	OEI	NPI	OEI	NPI	OEI	NPI	OEI	NPI	OEI	NPI
Arsenic, mg/L	Discharge of effluent water is not allowed.		0.2	0.1	0.5	0.2	1.0	0.5	1.0	0.5
Cadmium, mg/L			0.05	0.02	0.1	0.05	0.2	0.1	0.5	0.2
Chromium (hexavalent), mg/L			0.1	0.05	0.2	0.1	0.5	0.2	1.0	0.5
Cyanide, mg/L			0.2	0.1	0.3	0.2	0.5	0.2	--	--
Lead, mg/L			0.2	0.1	0.5	0.3	1.0	0.5	--	--
Mercury, mg/L			0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.01
PCB, mg/L			0.003	0.003	0.003	0.003	0.003	0.003	--	--
Formaldehyde, mg/L			2.0	1.0	0.2	1.0	2.0	1.0	--	--

Source: DAO NO. 1990-35, Revised Effluent Regulations of 1990, Revising and Amending the Effluent Regulations of 1982
OEI: Old or Existing Industry
NPI: New or Proposed Industry

(10) Effluent Standard: Conventional and Other Pollutant in Protected Water Category I & II and in Inland Water Class C

	Class AA & SA		Class B, C & SB		Class C	
	OEI	NPI	OEI	NPI	OEI	NPI
Color, PUC	Discharge of effluent water is not allowed.		150	100	200	150
Temperature(△T)℃			3	3	3	3
pH			6.0–9.0	6.0–9.0	6.0–9.0	6.5–9.0
COD, mg/L			100	60	150	100
Settleable Solids (1hour), mg/L			0.3	0.3	0.5	0.5
BOD 5days, mg/L			50	30	80	50
Total Suspended Solid, mg/L			70	50	90	70
Total Dissolved Solid, mg/L			1,200	1,000	1,500	1,000
Surfactant, mg/L			5.0	2.0	7.0	5.0
Oil/Grease, mg/L			5.0	5.0	10.0	5.0
Phenolic Substances as Phenol, mg/L			0.1	0.05	0.5	0.1
Total Coliform, MPN/100mL			5,000	3,000	15,000	10,000

Source: DAO NO. 1990-35, Revised Effluent Regulations of 1990, Revising and Amending the Effluent Regulations of 1982
OEI: Old or Existing Industry
NPI: New or Proposed Industry

(11)Effluent Standard: Conventional and Other Pollutant in Inland Water Class D, Coastal Waters Class SC and SD and Other Waters not yet Classified

	Class D		Class SC		Class SD & Others	
	OEI	NPI	OEI	NPI	OEI	NPI
Color, PUC	--	--	Discharge shall not cause abnormal coloration in receiving water body.			
Temperature(△T)℃	3	3	3	3	3	3
pH	5.0-9.0	6.0-9.0	6.0–9.0	6.0–9.0	5.0–9.0	5.0–9.0
COD, mg/L	250	200	250	200	300	200
Total Suspended Solid, mg/L	150	120	120	100	150	120
Total Dissolved Solid, mg/L	200	150	200	150	a	b
Surfactant, mg/L	2,000	1,500	--	--	--	--
Oil/Grease, mg/L	--	--	15	10	--	--
Phenolic Substances as Phenol, mg/L	--	--	1.0	0.5	5.0	1.0
Total Coliform, MPN/100mL	c	c	--	--	--	--

Source: DAO NO. 1990-35, Revised Effluent Regulations of 1990, Revising and Amending the Effluent Regulations of 1982

OEI: Old or Existing Industry

NPI: New or Proposed Industry

a: Not more than 30 mg/L increase (dry season)

b: Not more than 60 mg/L increase (dry season)

c: If effluent is used to irrigate vegetable or fruits crops which may be eaten raw, fecal coliform should be less than 500 MPN/100 mL.

Standard Parameters and Values for Drinking-water Quality (Standard Values for Bacteriological Quality)

Source and Mode of Supply	**Bacteria**	**Standard Value (No. / 100mL)**
a. All drinking-water supplies under all circumstances (Level l, ll, lll, Bottled water and Emergency Water Supplies)	E. Coli or Thermotolerant (fecal) coliform bacteria	0
b. Treated water entering the distribution system	E. Coli or Thermotolerant (fecal) coliform bacterial Total Coliforms	0 0
c. Treated water in the distribution system	E. Coli or Thermotolerant (fecal) coliform bacterial Total Coliforms	0 Must not be detectable in any 100mL sample. In case of large supplies where sufficient samples are examined, it must not be present in 95% of samples taken throughout any twelve month period

Source: Table 3.1 DAO No.1994-26A, Philippine Standards for Drinking Water 1993 under the Provision of Chapter II, Section 9 of PD 856, Otherwise Known as the Code on Sanitation of the Philippines

Standard Parameters and Values for Drinking-water Quality (Standard Values for Biological Organisms)

Constituents	Permissible Limit
Total Count/mL	10

Source: Table 3.2 DAO NO. 1994-26A, Philippine Standards for Drinking Water 1993 under the Provision of Chapter II, Section 9 of PD 856, Otherwise Known as the Code on Sanitation of the Philippines

Standard Parameters and Values for Drinking-water Quality (Standard Values for Physical and Chemical Quality: Health Significance)

	Constituent	Maximum Level (mg/L)
A. Inorganic Constituents	Antimony	0.005
	Arsenic	0.01
	Barium	0.7
	Boron	0.3
	Cadmium	0.003
	Chromium	0.05
	Cyanide	0.07
	Flouride	1.0
	Lead	0.01
	Mercury (total)	0.001
	Nitrate as NO3-	50
	Nitrate as NO2-	3
	Selenium	0.01
B. Organic Constituents (Pesticides)	Aldrin & Dieldrin	0.03
	Chlordane	0.2
	DDT	2
	Endrin	0.2
	Heptachlor and Heptachlor epoxide	0.03
	Lindane	2
	Methoxychlor	20
	Petroleum oils & grease	nil
	Toxyphane	5
	2,4 - D	30
	2,4,5 - T	9

Source: Table 3.3 DAO NO. 1994-26A, Philippine Standards for Drinking Water 1993 under the Provision of Chapter II, Section 9 of PD 856, Otherwise Known as the Code on Sanitation of the Philippines

Standard Parameters and Values for Drinking-water Quality (Standard Values for Physical and Chemical Quality : Aesthetic Quality)

Constituent or Characteristic	Maximum Level (mg/L)
Taste	Unobjectionable
Odor	Unobjectionable
Color	5 TCU
Turbidity	5 NTU
Aluminum	0.2
Chloride	250
Copper	1
Hardness	300 (as CaCo3) *
Hydrogen Sulfide	0.05
Iron	1

Manganese	0.5
pH	6.5 - 8.5
Sodium	200 *
Sulfate	250
Total Dissolved Solids	500
Zinc	5 *

Source: Table 3.4 DAO NO. 1994-26A, Philippine Standards for Drinking Water 1993 under the Provision of Chapter II, Section 9 of PD 856, Otherwise Known as the Code on Sanitation of the Philippines

* --- Secondary standards: compliance with the standard and analysis are not obligatory

(12)Noise

Area	Daytime (8a.m.-6p.m.)	Morning (5-8a.m.) Evening (6-10p.m.)	Night (10p.m.-5a.m.)
Within 100m area from Schools and Hospitals	50	45	40
Residential Area	55	50	45
Commercial Area	65	60	55
Light Industrial Area	70	65	60
Heavy Industrial Area	75	70	65

Source：1978 Rules and Regulations of National Pollution Control Commission (NPCC)

CDM Projects in the Philippines
(as of March 31, 2011)

CDM Projects in the Philippines (as of March 31, 2011)

Name of CDM Project Activity	Other Parties Involved	Type of Project	Registration Date	Date of first issuance	Annual ERs (tCO2/y)	Total ERs by 2012 (tCO2)
NorthWind Bangui Bay Project	The Netherlands Finland	Wind Power	10-Sep-06	22-May-07	56,788	435,634
Wastewater treatment using a Thermophilic Anaerobic Digestor at an ethanol plant in the Philippines	Japan	Biogas (Wastewater treatment)	1-Oct-06		95,896	527,822
Joliza Farms Inc. Methane Recovery	UK	Biogas (Animal waste)	23-Oct-06	25-Mar-11	3,656	22,547
Uni-Rich Agro-Industrial Corporation Methane Recovery and Electricity Generation	UK	Biogas (Animal waste)	28-Oct-06		2,929	18,064
Gaya Lim Farm Inc. Methane Recovery	UK	Biogas (Animal waste)	30-Oct-06		3,130	19,303
20 MW Nasulo Geothermal Project	The Netherlands	Geothermal power	10-Dec-06		74,975	368,713
Paramount Integrated Corporation Methane Recovery and Electricity Generation	UK	Biogas (Animal waste)	31-Jan-07		7,582	46,759
San Carlos Renewable Energy Project		Biomass	13-Apr-07		37,658	156,926
Philippine Sinter Corporation Sinter Cooler Waste Heat Recovery Power Generation Project	Japan	Waste gas/heat utilization	5-May-07	15-Oct-10	61,702	308,510
D&C Concepcion Farms, Inc. Methane Recovery and Electricity Generation Project	UK	Biogas (Animal waste)	26-Aug-07		3,348	18,135
Bondoc Realty Methane Recovery and Electricity Generation Project	UK	Biogas (Animal waste)	7-Sep-07		1,785	9,492
Superior Hog Farms Methane Recovery	UK	Biogas (Animal waste)	7-Sep-07		3,346	17,793
Goldi-Lion Agricultural Development Corporation Methane Recovery and Electricity Generation Project	UK	Biogas (Animal waste)	8-Sep-07		3,994	21,228
The Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Bundled Project (ADSW RP1001)	UK	Biogas (Animal waste)	17-Dec-07		5,806	29,269
Quezon City Controlled Disposal Facility Biogas Emission Reduction Project	Italy	Methane recovery & utilization	1-Feb-08	25-Jun-09	116,339	677,592
Laguna de Bay Community Waste Management Project: Avoidance of methane production from biomass decay through composting -1	The Netherlands	Methane avoidance	16-Mar-08		6,058	24,467
Hedcor Sibulan 42.5 MW Hydroelectric Power Project		Hydro Power	6-Jun-08		95,174	325,417
Makati South Sewage Treatment Plant Upgrade with On-site Power	UK	Biogas (Wastewater treatment)	24-Jun-08		28,729	129,908
First Farmers Holding Corporation	Spain	Biomass	10-Sep-08		119,787	516,131

Name of CDM Project Activity	Other Parties Involved	Type of Project	Registration Date	Date of first issuance	Annual ERs (tCO2/y)	Total ERs by 2012 (tCO2)
(FFHC) Bagasse Cogeneration Plant						
Montalban Landfill Methane Recovery and Power Generation Project	UK	Methane recovery & utilization	10-Mar-09		589,993	2,057,430
Excel Farm Methane Recovery and Electricity Generation Project	UK Switzerland	Biogas (Animal waste)	10-Mar-09		12,526	47,770
Biomass boiler project in the Philippines	Japan	Biomass	15-Mar-09		18,529	68,899
Amigo Farm Methane Recovery and Electricity Generation Project	UK Switzerland	Biogas (Animal waste)	25-Mar-09		5,761	21,734
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP2001)	UK	Biogas (Animal waste)	6-Apr-09		2,403	8,987
Lanatan Agro-Industrial Inc. Methane Recovery and Electricity Generation Project	UK	Biogas (Animal waste)	17-Apr-09		3,227	11,971
Rocky Farms, Inc. Methane Recovery and Electricity Generation Project	UK	Biogas (Animal waste)	20-Apr-09		3,201	11,848
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP2003)	UK	Biogas (Animal waste)	15-Jun-09		8,063	28,607
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP2004)	UK	Biogas (Animal waste)	15-Jun-09		4,395	15,593
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW) RP2006	UK	Biogas (Animal waste)	15-Jun-09		2,773	9,838
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1002)	UK	Biogas (Animal waste)	15-Jun-09		6,679	23,427
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project	UK	Biogas (Animal waste)	17-Jun-09		2,679	9,490
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1003)	UK	Biogas (Animal waste)	17-Jun-09		1,802	6,384
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP2008)	UK	Biogas (Animal waste)	20-Jun-09		1,415	5,001
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1005)	UK	Biogas (Animal waste)	20-Jun-09		6,779	23,959
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1007)	UK	Biogas (Animal waste)	25-Jun-09		8,144	29,430
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1004)	UK	Biogas (Animal waste)	29-Jun-09		12,000	42,115
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1006)	UK	Biogas (Animal waste)	29-Jun-09		6,442	22,701

Name of CDM Project Activity	Other Parties Involved	Type of Project	Registration Date	Date of first issuance	Annual ERs (tCO2/y)	Total ERs by 2012 (tCO2)
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP1008)	UK	Biogas (Animal waste)	29-Jun-09		2,531	8,883
Anaerobic Digestion Swine Wastewater Treatment With On-Site Power Project (ADSW RP2007)	UK	Biogas (Animal waste)	4-Sep-09		4,003	13,314
Secondary catalytic reduction of N2O emissions at ONPI nitric acid plant in Bacong, the Philippines		N2O decomposition	1-Mar-10		39,203	111,272
Metro Clark Landfill Gas Capture System		Methane recovery & utilization	7-Oct-10		160,425	217,790
Family Choice and Golden Season 2MW Rice Husk Projects	UK	Biomass	6-Nov-10		14,948	32,189
8 MW Cabulig River Mini-Hydroelectric Power Project		Hydro Power	11-Dec-10		31,962	53,270
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP3001)	UK	Biogas (Animal waste)	30-Dec-10		34,069	68,325
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP 3003)	UK	Biogas (Animal waste)	31-Dec-10		36,005	72,109
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP2024)	UK	Biogas (Animal waste)	7-Jan-11		39,496	78,343
Anaerobic digestion Swine Wastewater Treatment with On-site Power Project (ADSW RP3002)	UK	Biogas (Animal waste)	8-Jan-11		31,687	62,766
Bataan 2020 12.5 MW Power Rice Hull Cogeneration Project	UK	Biomass	11-Mar-11		38,652	69,997
Republic Cement Corporation – Teresa Plant Waste Heat Recovery Project	France	Waste gas/heat utilization	29-Mar-11		11,811	20,807

Source: IGES CDM Project Database http://www.iges.or.jp/en/cdm/report_cdm.html (As of March 31, 2011)

Project Grouping Matrix for Determination of EIA Report Type

Project Grouping Matrix for Determination of EIA Report Types for New Single & Co-Located Projects [1]

		Project Type	Project Size Parameter	EIA Report Type Required / Decision Document
		GROUP I: ENVIRONMENTALLY CRITICAL PROJECTS (ECPs) [2] in both Environmentally Critical Areas (ECAs) and Non-ECAs, as declared in and Presidential Proclamation No. 803 (1996) for Gold Courses, and Presidential Proclamation No. 2146 (1981) for Heavy and Resource Extractive Industries & Infrastructure Projects		**Environmental Impact Statement (EIS) / ECC**
	A.	**GOLF COURSE PROJECTS**		
1.	A.1.	Golf course projects/complex	number of holes	regardless of number of holes
	B.	**HEAVY INDUSTRIES**		
2.	B.1.	**Iron and Steel Mills** [4]	annual production rate	≥ 30,000 MT
3.	B.2.	**Non-Ferrous Metal Industries** [5]	annual production rate	≥ 30,000 MT
	B.3.	**Petroleum and Petrochemical Industries** [6]		
4.	B.3.a.	Petrochemical industry projects	annual production rate	≥ 30,000 MT
5.	B.3.b.	Recycling of oil and other petroleum-based chemicals	daily recycling rate	≥ 10 MT
6.	B.3.c.	Refineries	annual production rate	≥ 30,000 barrels
7.	B.4.	**Smelting Plants** [7]	annual smelting rate of raw material	≥ 15,000 MT
	C.	**RESOURCE EXTRACTIVE INDUSTRIES**		
	C.1.	**FISHERY PROJECTS - DIKES FOR/AND FISHPOND DEVELOPMENT PROJECTS** [8]		
8.	C.1.a.	Fishery/Aquaculture Projects (inland-based, e.g., lakes, rivers, etc.)	total water spread area to be utilized	≥ 25 hectares
9.	C.1.b.	Fishery/Aquaculture Projects in water bodies (coastal areas)	total water spread area to be utilized	≥ 100 hectares
	C.2.	**FORESTRY PROJECTS**		
	C.2.a.	Logging Projects		
10.	C.2.a.1	Community Based Forest Resources Utilization (CBFRU) [9]	volume of trees to be cut	≥ 10,000 m^3
11.	C.2.a.2	Integrated Forest Management Agreement (IFMA) projects [9]	volume of trees to be cut	≥ 10,000 m^3

GROUP I: ENVIRONMENTALLY CRITICAL PROJECTS (ECPs) [2] in both Environmentally Critical Areas (ECAs) and Non-ECAs, as declared in and Presidential Proclamation No. 803 (1996) for Gold Courses, and Presidential Proclamation No. 2146 (1981) for Heavy and Resource Extractive Industries & Infrastructure Projects				
Project Type			Project Size Parameter	EIA Report Type Required / Decision Document
				Environmental Impact Statement (EIS) / ECC
12.	C.2.a.3	Timber License Agreement (TLA)	volume of trees to be cut	≥ 10,000 m³
13.	C.2.b.	Grazing Projects [9,10]	grazing capacity	> 1 head/hectare
14.	C.2.c.	Introduction of Exotic Fauna in Public and Private Forests		Regardless of number or area
15.	C.2.d.	Major Wood Processing Projects	equivalent annual production rate	> 8,000 m³
16.	C.2.b.1	Pulp and Paper Industries	annual production capacity	≥ 50,000 MT
	C.3.	**MAJOR MINING AND QUARRYING PROJECTS**		
17.	C.3.a.	Coal mining	annual extraction rate	> 70,000 MT
	C.3.b.	Extraction of metallic ores (on shore)		
18.	C.3.b.1	• Open pit method with mechanical operations, blasting or combinations thereof	annual extraction rate OR area to be mined	≥ 100,000 MT OR ≥ 25 hectares
19.	C.3.b.2	• Other methods	annual extraction rate OR area to be mined	≥ 150,000 MT OR ≥ 25 hectares
20.	C.3.c.	Extraction of non-metallic ores with or without explosive • Limestone /shale/silica/clay/placer and other non-metal ores • Aggregates (sand, stone, gravel) • Dredging activities resulting to commercial use or ore recovery	annual extraction rate OR quarry area	≥ 75,000 MT OR ≥ 20 hectares
	C.3.d.	Extraction of Oil and Gas (Land-based) [11]		
21.	C.3.d.1	• Commercial extraction of oil	daily commercial extraction rate	≥ 4,000 barrels (or equivalent)
22.	C.3.d.2	• Commercial extraction of gas	daily commercial extraction rate	≥ 250,000 m³
23.	C.3.e.	Metallic Mineral or ore processing (e.g., copper, lead, nickel, cobalt, zinc, sulfur, silver, magnesium and manganese, gold)	annual processing (inputs)	≥ 70,000 MT
24.	C.3.f.	Non-metallic mineral processing plants like cement, other cement products, clinker, limestone	annual production rate	≥ 50,000 MT
25.	C.3.g.	Non-metallic mineral processing projects like ceramic industries, manufacture of glass and glass products, manufacture and processing of calcium	annual production rate	≥ 70,000 MT
26.	C.3.h.	Off-shore mining (including commercial extraction of oil and gas, deuterium) [11]		Regardless of commercial capacity or area

GROUP I: ENVIRONMENTALLY CRITICAL PROJECTS (ECPs) [2] in both Environmentally Critical Areas (ECAs) and Non-ECAs, as declared in and Presidential Proclamation No. 803 (1996) for Gold Courses, and Presidential Proclamation No. 2146 (1981) for Heavy and Resource Extractive Industries & Infrastructure Projects				
Project Type			Project Size Parameter	EIA Report Type Required / Decision Document
				Environmental Impact Statement (EIS) / ECC
	D.	**INFRASTRUCTURE PROJECTS**		
27.	D.1.	**MAJOR DAMS**	Reservoir flooded area OR water storage capacity	≥ 25 hectares OR ≥ 20 million m^3
28.	D.2.	**MAJOR RECLAMATION PROJECTS**	area reclaimed	≥ 50 hectares
	D.3.	**MAJOR ROADS & BRIDGES**		
29.	D.3.a.	Bridges and viaducts, new construction	length	≥ 10.0 km
30.	D.3.b.	On-grade railway system, new		Regardless of length and width
31.	D.3.c.	Roads, new construction, widening (including RO-RO facilities)	length with no critical slope OR length with critical slope	≥ 20.0 km OR ≥ 10.0 km
32.	D.3.d.	Tunnels and sub-grade roads and railways	length	≥ 1.0 km
	D.4.	**MAJOR POWER PLANTS (Proc No. 2146 declared types: fossil-fueled, nuclear fueled, hydroelectric or geothermal)**		
33.	D.4.a.	Fuel Cell	total power production capacity	≥ 100 MW
34.	D.4.b.	Gas-fired thermal power plants	total power production capacity	≥ 50 MW
35.	D.4.c.	Geothermal facilities	total power production capacity	≥ 50 MW
36.	D.4.d.	Hydropower facilities	water impounding capacity	≥ 20 million cubic meters
37.	D.4.e.	Other thermal power plants (e.g., diesel, bunker, coal, etc.)	total power production capacity	≥ 30 MW

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)					
First Set of Group II Projects under similar Project Types as declared in Presidential Proclamation No. 2146					
Project Type			Project Size Parameter	EIA Report Type for Corresponding Project Size/Threshold / Decision Document	
				Initial Environment Examination[3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	Project Description Report[12] / CNC
	A.	**HEAVY INDUSTRIES**			
38.	A.1.	**Iron and Steel Mills** [4]	annual production rate	> 200 MT but < 30,000 MT	≤ 200 MT annually AND ≤ 1.0 MT daily
39.	A.2.	**Non-Ferrous Metal Industries** [5]	annual production rate	> 200 MT but < 30,000 MT	≤ 200 MT annually AND ≤ 1.0 MT daily
	A.3.	**Petroleum and Petrochemical Industries** [6]			
40.	A.3.a.	Petrochemical industry projects	annual production rate	> 200 MT but < 30,000 MT	≤ 200 MT annually AND ≤ 1.0 MT daily
41.	A.3.b.	Recycling of oil and other petroleum-based chemicals	daily recycling rate	> 1.0 MT but < 10 MT	≤ 1.0 MT daily AND ≤ 200.0 MT annually
42.	A.3.c.	Refineries	annual production rate	> 200 barrels but < 30,000 barrels	≤200 barrels annually AND ≤ 1.0 barrels daily
43.	A.4.	**Smelting Plants** [7]	annual smelting rate of raw material	> 200 MT but < 15,000 MT	≤ 200 MT annually AND ≤1.0 MT daily
	B.	**RESOURCE EXTRACTIVE INDUSTRIES**			
	B.1.	**FISHERY PROJECTS – DIKES FOR/AND FISHPOND DEVELOPMENT PROJECTS** [8]			
44.	B.1.a.	Fishery/Aquaculture Projects (inland-based, e.g., lakes, rivers, etc.)	total water spread area to be utilized	≥ 1 hectares but < 25 hectares ◎	< 1 hectare
45.	B.1.b.	Fishery/Aquaculture Projects in water bodies (coastal areas)	total water spread area to be utilized	≥ 1 hectare but < 100 hectares	< 1 hectare
	B.2.	**FORESTRY PROJECTS**			
	B.2.a.	Logging Projects			
46.	B.2.a.1	Community Based Forest Resources Utilization (CBFRU)[9]	volume of trees to be cut	< 10,000 m³	
47.	B.2.a.2	Integrated Forest Management Agreement (IFMA) projects [9]	volume of trees to be cut	< 10,000 m³	
48.	B.2.a.3	Private land timber utilization (PLTU) [9]	volume of trees to be cut	≥ 100 m³ ◎	< 100 m³
49.	B.2.a.4	Timber License Agreement (TLA)	volume of trees to be cut	< 10,000 m³	

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)					
First Set of Group II Projects under similar Project Types as declared in Presidential Proclamation No. 2146					
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold Decision Document**	
				Initial Environment Examination[3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	**Project Description Report[12] / CNC**
50.	B.2.b.	Grazing Projects [9,10]	Grazing capacity		1 head/hectare (but not more than 100 heads / 100 hectare)
51.	B.2.c.	Introduction of Exotic Flora in Public and Private Forests		Regardless of number or area	
52.	B.2.d.	Minor Wood Processing Projects [9]	equivalent annual AND production rate	≥ 1,000 to 8,000 m³	< 1,000 cubic meters
53.	B.2.d.1	Pulp and Paper Industries	annual production capacity	< 50,000 MT	
	B.3.	**MINOR MINING & QUARRYING PROJECTS**			
54.	B.3.a.	Batching Plant (with or without crushing)		All batching plants ©	
55.	B.3.b.	Coal mining	annual extraction rate	Up to 70,000 MT ©	
	B.3.c.	Extraction of metallic ores (on shore)			
56.	B.3.c.1	• Open pit method with mechanical operations, blasting or combinations thereof	annual extraction rate AND area to be mined	< 100,000 MT AND < 25 hectares	
57.	B.3.c.2	• Other methods	annual extraction rate AND area to be mined	> 200 MT but < 150,000 MT AND < 25 hectares	≤ 200.0 MT per year AND ≤ 1.0 MT daily extraction
58.	B.3.d.	Extraction of non-metallic ores with or without explosive • Limestone /shale/silica/clay/placer and other non-metal ores • Aggregates (sand, stone, gravel) • Dredging activities resulting to commercial use or ore recovery	annual extraction rate AND quarry area	< 75,000 MT AND < 20 hectares ©	
	B.3.e.	Extraction of Oil and Gas (Land-based) [11]			
59.	B.3.e.1	• Commercial extraction of oil	daily commercial extraction rate	< 4,000 barrels (or equivalent)	
60.	B.3.e.2	• Commercial extraction of gas	daily commercial extraction rate	< 250,000 m³	
61.	B.3.f.	Marble slab processing plant		All marble slab processing plants ©	
62.	B.3.g.	Metallic Mineral or ore processing (e.g., copper, lead, nickel, cobalt, zinc, , silver, magnesium and manganese, gold, placer with metal content)			

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)					
First Set of Group II Projects under similar Project Types as declared in Presidential Proclamation No. 2146					
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold Decision Document**	
				Initial Environment Examination[3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	**Project Description Report[12] / CNC**
63.	B.3.g.1	▪ With physical or mechanical processing	annual processing (inputs)	> 200.0 MT annually but < 70,000 MT	≤ 200.0 MT annually AND ≤1.0 MT daily
64.	B.3.g.2	▪ With chemical processing	annual processing (inputs)	< 70,000 MT	
65.	B.3.h.	Non-commercial Geothermal Exploration Projects		Regardless of area or number of wells	
66.	B.3.i.	Non-commercial mineral and fossil mining projects: core drilling/sampling, exploration (drilling and testing); feasibility studies; geo-scientific, physical surveys; gravity survey; piloting; reconnaissance; research and development activities; seismic survey, and similar activities with no significant earth moving activities etc..			regardless of capacity or area
67.	B.3.j.	Non-metallic mineral processing plants like cement, other cement products, clinker, limestone, sulfur	annual production rate	> 200 MT but < 50,000 MT	≤ 200.0 MT annually AND ≤1.0 MT daily
68.	B.3.k.	Non-metallic mineral processing projects like ceramic industries, manufacture of glass and glass products, manufacture and processing of calcium	annual production rate	> 200 MT but < 70,000 MT	≤ 200.0 MT annually AND ≤1.0 MT daily
	C.	**INFRASTRUCTURE PROJECTS**			
69.	C.1.	**MINOR DAMS**	Reservoir flooded area AND water storage capacity	< 25 hectares AND < 20 million m³	
	C.2.	**MINOR POWER PLANTS (Proc No. 2146 declared types: fossil-fueled, nuclear fueled, hydroelectric or geothermal)**			
70.	C.2.a.	Small power plants	total power production capacity		≤ 1 MW unless specified below
71.	C.2.b.	Fuel Cell	total power production capacity	≥ 5 MW but < 100 MW	< 5 MW
72.	C.2.c.	Gas-fired thermal power plants	total power production capacity	≥ 10.0 MW but < 50.0 MW	< 10.0 MW
73.	C.2.d.	Geothermal facilities	total power production capacity	> 1.0 MW but <50.0 MW	≤ 1 MW
74.	C.2.e.	Hydropower facilities	-	< 20 million cubic meters water impounding capacity	Run-of-river system

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
First Set of Group II Projects under similar Project Types as declared in Presidential Proclamation No. 2146						
Project Type				**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold Decision Document**	
					Initial Environment Examination[3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	**Project Description Report[1,2] / CNC**
75.	C.2.f.	Other thermal power plants (e.g., diesel, bunker, coal, etc.)		total power production capacity	≥ 5.0 MW but < 30.0 MW	< 5.0 MW
76.	C.3.	**MINOR RECLAMATION PROJECTS**		area reclaimed	< 50 hectares	
	C.4.	**MINOR ROADS & BRIDGES**				
77.	C.4.a.	Bridges and viaducts, new construction		length	≥ 80 m but < 10.0 km ◎	Regardless of length for foot bridges; <80 m for other bridges
78.	C.4.b.	Roads, new construction, widening (including RO-RO facilities)		length with no critical slope, OR length with critical slope	≥ 2 km but < 20.0 km, OR ≥ 2 km but < 10.0 km ◎	< 2 km
79.	C.4.c.	Elevated roads, flyover/cloverleaf/interchanges			Regardless of length and width	
80.	C.4.d.	Tunnels and sub-grade roads and railways		length	< 1.0 km	
81.	C.4.e.	Pedestrian passages			All underpass projects	All overpass projects
	C.5.	**OTHER POWER PLANTS & POWER FACILITIES (not listed in Proclamation No. 2146)**				
82.	C.5.a.	Small power plants	total power production capacity			≤ 1 MW unless specified below
83.	C.5.b.	Power barge	total power production capacity		> 1 MW but < 10 MW ◎	≤ 1 MW
84.	C.5.c.	Power transmission lines	power carrying capacity		≥ 138 KV ◎	
85	C.5.d.	Renewable energy projects such as ocean, solar, wind, tidal power except waste-to-energy and biogas projects)	total power production capacity	≥ 100 MW	≥ 5 MW but < 100 MW	< 5 MW
86.	C.5.e.	Substations/switchyard	power output		> 220 kV ◎	≤ 220kV
87	C.5.f.	Waste-to-energy projects including biogas projects	total power production capacity	≥ 50.0 MW	> 1 MW but < 50 MW	≤ 1 MW
88.	C.5.g.	Wind farms/Wind projects	total power production capacity		≥ 5 MW but < 100 MW ◎	< 5 MW

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			Project Size Parameter	EIA Report Type for Corresponding Project Size/Threshold / Decision Document		
				Environmental Impact Statement (EIS)	Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	Project Description Report [12] / CNC
	D.	AGRICULTURE INDUSTRY				
89.	D.1.	Agricultural plantation (e.g. orchards, including rubber plantation)	area to be developed	≥ 1,000 hectares	≥ 100 hectares but < 1,000 hectares	< 100 hectares
90	D.2.	Agricultural processing facilities	annual production rate	≥ 50,000 MT	≥ 5,000 MT but < 50,000 MT	< 5,000 MT
91.	D.3.	Cut-flower Industry/Projects				regardless of capacity or area
	D.4.	Livestock Production				
92.	D.4.a.	Pigs/Goats (enclosed)	stock population	≥ 5,000 heads	≥ 100 heads but < 5,000 heads ©	< 100 heads
93.	D.4.b.	Poultry/birds [13]	stock population	≥ 100,000 heads	≥ 10,000 heads but < 100,000 heads ©	< 10,000 heads
94	D.4.c.	Rice mill	milling rate		> 1 ton/hr ©	≤ 1 ton/hr
	E.	Buildings, Storage Facilities and Other Structures				
95.	E.1.	Cemetery	area to be developed		≥ 5.0 hectares	< 5.0 hectares
96.	E.2.	Commercial, [Business centers with residential units (mixed use), malls, supermarkets, public markets] ▪ Fastfood/Restaurant Projects ▪ Commercial Establishments (i.e. Showrooms)	total/gross floor area including parking and other areas	≥ 2.5 hectare	≥ 1 hectare but <2.5 hectares	< 1 hectare; All other Commercial establishments that sell only non-perishable goods and/or showrooms for motor vehicles and similar products
97.	E.3.	Commercial, [office spaces only] Institutional and other related facilities: religious, government, and educational	total/gross floor area including parking and other areas		≥ 1 hectare	< 1 hectare
98.	E.4.	Facilities for Barangay Micro-Business Enterprises (BMBE) Projects [14]				regardless of capacity or area
99.	E.5.	Family dwellings/apartment type	total/gross floor area including parking and other areas			Regardless of area

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold / Decision Document**		
				Environmental Impact Statement (EIS)	**Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC**	**Project Description Report [12] / CNC**
100.	E.6.	Funeral parlors, crematorium, columbarium	total/gross floor area including parking and other areas		≥ 1 hectare	<1 hectare
101.	E.7.	Institutional and other related facilities: medical facilities			Primary, Secondary, Tertiary hospitals or Medical Facilities ©	Clinics (out-patient, health centers, dental clinics) including rural health units
102.	E.8.	Institutional and other structures with laboratory facilities			Regardless of size or area	
103.	E.9.	Motels, Hotels, Condominium/ Apartelles (residential)	total/gross floor area including parking and other areas		≥ 1 hectare	<1 hectare
104.	E.10.	LPG storage and refilling	storage capacity		Regardless of capacity ©	
105.	E.11.	Refilling station projects/gasoline station projects	storage capacity		≥ 20 kL ©	< 20 kL
106.	E.12.	Storage of petroleum, petrochemical or related products	storage capacity	≥ 5,000 kL	< 5,000 kL but ≥ 20 kL	< 20 kL
107.	E.13.	Storage facilities, non-toxic/hazardous materials, substances or products	total/gross floor area including parking and other area		≥ 1 hectare	< 1 hectare
108.	E.14.	Storage facilities, toxic or hazardous materials, substances or products	storage capacity	≥ 1,000 MT	≥ 0.1 MT but < 1,000 MT	< 0.1 MT
109.	E.15.	Subdivision and housing projects, resettlement projects, economic and socialized housing project, open market housing and other similar (horizontal) land development projects	total land area, including all common and other areas		Regardless of area ©	
110.	E.16.	Telecommunication Projects [15]				Regardless of type
	F.	**Chemical Industries (For associated building requirements, refer to Group II E.14/E.15)**				
111.	F.1.	Manufacturing, processing and/or use of substances included in the Priority Chemical List	quantity of toxic chemicals to be used per month	≥ 1.0 MT	> 0.001 MT but < 1.0 MT	≤ 0.001 MT

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold / Decision Document**		
				Environmental Impact Statement (EIS)	**Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC**	**Project Description Report [12] / CNC**
112. .	F.2.	Manufacture of explosives, propellants and industrial gases	daily production rate	≥ 5 MT	> 0.001 MT but < 5 MT	≤ 0.001 MT
113.	F.3.	Manufacture of agri-chemicals and other industrial chemicals not in the PCL	annual production rate	≥ 30,000 MT	> 200 MT but < 30,000 MT	≤ 200 MT annually AND ≤ 1 MT daily
114.	F.4.	Pharmaceutical industries and manufacture of soap and detergents, health and beauty products, and other consumer products.	annual production rate	≥ 50,000 MT	> 200 MT but < 50,000 MT	≤ 200 MT annually AND ≤ 1 MT daily
115.	F.5.	Surface coating industries (paints, pigments, varnishes, lacquers, anti-capacity fouling coating, printing inks)	annual production rate	≥ 30,000 MT	> 200 MT but < 30,000 MT	≤ 200.0 MT annually AND ≤ 1.0 MT daily
116.	**G.**	**Cottage Industries [16]**				regardless of capacity or area
117.	**H.**	**Demonstration and Pilot Projects**				regardless of capacity or area
	I.	**Environmental Enhancement and Environmental Mitigation Projects [12] (PD Report required)**				
118.	I.1.	Artificial Reef				regardless of capacity or area
119.	I.2.	Pollution control devices or facilities required under the ECC conditions of the *"main"* project/s covered under Groups I or II.				regardless of capacity or area
120.	I.3.	Pollution control devices or similar facilities intended to prevent emissions and/or discharges beyond allowable limits (e.g. for compliance with Clean Air Act or Clean Water Code).				no Groups I and II components wherein thresholds are required an EIS, IEER or IEEC
121.	I.4.	Preventive or proactive measures against potential natural hazards (such as shore protection, river embankment/river bank stabilization, seawall, etc.)				no Groups I and II components wherein thresholds are required an EIS, IEER or IEEC

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold / Decision Document**		
				Environmental Impact Statement (EIS)	**Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC**	**Project Description Report [12] / CNC**
122.	I.5.	Reforestation projects				capacity or area based on the recommendation/s and endorsement of PMB and/or PAWB on a case-to-case basis
	J.	**Food and Related Industries [17] (For associated building requirements, refer to Group II E.14/E.15)**				
123.	J.1.	Animal products processing (fish/meat processing, canning, slaughterhouses, etc.)	daily production rate	≥ 10,000 kg	≥ 500 kg but < 10,000 kg	< 500 kg
124.	J.2.	Coconut processing plants (including production of coconut based products)	monthly production rate	≥ 25,000 MT	< 25,000 MT	
125.	J.3.	Distillation and Fermentation Plants (e.g. bio-ethanol project)	annual production rate	≥ 50,000	< 50,000 MT	
126.	J.4.	Food preservation (e.g., drying, freezing) and other methods aside from canning				Regardless of capacity
127.	J.5.	Fruit and vegetable processing	daily production rate	≥ 500 Kg	< 500 Kg	
128.	J.6.	Leather and related industries	daily processing rate of raw hides		≥ 1 MT	< 1.0 MT
129.	J.7.	Other types of food (and other food by-products, additives, etc.) processing industries	annual production rate of finished product	≥ 50,000 MT	< 50,000 MT	
130.	J.8.	Processing of dairy products	monthly production rate	≥ 100,000 L (liquid) OR ≥ 100,000 Kg (solid)	<100,000 L (liquid) OR < 100,000 Kg (solid)	
131.	J.9.	Sugar Mills	annual production rate	≥ 50,000 MT	< 50,000 MT	
	K.	**Manufacture of Other Products, e.g. Packaging Materials [18] (For associated building requirements, refer to Group II D.12/D.13)**				
132.	K.1.	Glass-based products	annual production rate		≥ 30,000 MT	< 30,000 MT
133.	K.2.	Metal-based products (Including Semi-Conductor/Electronic Industries)	annual production rate		≥ 15,000 MT	< 15,000 MT
134.	K.3.	Paper and plastic-based products	annual production rate		≥ 15,000 MT	< 15,000 MT

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			**Project Size Parameter**	**EIA Report Type for Corresponding Project Size/Threshold / Decision Document**		
				Environmental Impact Statement (EIS)	**Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC**	**Project Description Report [12] / CNC**
135.	**L.**	**Pipeline Projects**				
136.	L.1.	Fuel pipelines	length	≥ 25 km	< 25 km	
137.	L.2.	Other pipelines	length	≥ 50 km	< 50 km	
138.	**M.**	Service Industries which do not emit pollutants except for domestic wastes and occupying a space equal to or less than limits specified in Groups I or II for infrastructure or other applicable project components needed in the service industry. [19]				regardless of capacity or area
	N.	**Textile, Wood, Rubber Industries** (For associated building requirements, refer to Group II E.14/E.15)				
139.	N.1.	Textile, Wood, Rubber Industries [20]	annual production rate	> 50,000 MT	< 50,000 MT	Garment Manufacturing [21] w/o Dyeing and only involves spinning, cutting and sewing
140.	N.2.	Wood and Metal Furniture Assembly [22]				regardless of capacity or area
	O.	**Tourism Industry**				
141.	O.1.	Resorts and other tourism/leisure projects	area to be developed	≥ 25 hectares	> 0.1 hectare but < 25 hectares ©	≤ 0.1 hectare
	P.	**Transport Terminal Facilities**				
142.	P.1.	Airports	functional size	Larger than a private strip		Private airstrips
143.	P.2.	Land transport terminal (for buses, jeepneys and other modes of transportation)	total land area		1 hectare to > 2 hectares ©	< 1 hectare without service facilities
144.	P.3.	Sea port, causeways, and harbors	area to be developed	≥ 15.0 hectares with reclamation OR ≥ 25.0 hectares (w/o reclamation)	< 15.0 hectares reclamation OR < 25.0 hectares (w/o reclamation)	< 1.0 hectares (w/o reclamation)
145.	**Q.**	**Treasure Hunting Projects** (located in NIPAS areas)			regardless of capacity or area	

GROUP II - Non-ECPs in Environmentally Critical Areas (ECAs)						
Second Set of Group II Projects as defined by DENR-EMB (not included in declared Project Types as Proclamation No. 2146)						
Project Type			Project Size Parameter	EIA Report Type for Corresponding Project Size/Threshold / Decision Document		
				Environmental Impact Statement (EIS)	Initial Environment Examination [3] (IEE Report: IEER or IEE Checklist: IEEC) / ECC	Project Description Report [12] / CNC
	R.	**Waste Management Projects**				
146.	R.1.	Compost/fertilizer making	daily production rate		≥ 15 MT ©	< 15 MT
147.	R.2.	Domestic wastewater treatment facility	quantity of waste to be treated annually	≥ 5,000 m³	< 5,000 m³	< 30 m³
148.	R.3.	Hazardous waste treatment, recycling, and/or disposal facilities (for recycling of lead, see details in Group I - Heavy Industries)	quantity of waste to be treated annually	≥ 10.0 MT	< 10.0 MT	
149.	R.4.	Industrial and hospital waste (non-hazardous) materials treatment facilities	quantity of waste to be treated annually	≥ 50 m³	< 50 m³	
150.	R.5.	Landfill for industrial and other wastes	number of users	Multi-users	Single-user	
151.	R.6.	Materials Recovery Facilities	kind of activity		with composting facilities (see category of composting above) ©	material segregation only
152.	R.7.	Receiving facilities, paper, plastic, and other materials recycling	quantity of waste to be treated annually	≥ 300,000 MT	< 300,000 MT OR involving the use of chemicals ©	involve manual or mechanical sorting only
153.	R.8.	Sanitary landfill for domestic wastes only	daily waste input	> 1,000 MT	≤ 1,000 MT ©	
	S.	**Water Supply, Irrigation or Flood Control Projects**				
154.	S.1.	Impounding System or Flood Control Project	reservoir flooded area	≥ 25 hectares	< 25 hectares OR impounded water ≤ 20 million m³ ©	
155.	S.2.	Irrigation System (Distribution System Only)	service area	≥ 1,000 hectares	≥300 hectares but < 1,000 hectares ©	< 300 hectares
156.	S.3.	Water Supply Systems (Complete System)	number of production wells	> 6 wells and other systems (e.g. infiltration gallery, etc.)	≤ 6 wells	
157.	S.4.	Water Supply System (Distribution Only)	distribution supply level		Level III – with household connection and water treatment	Level II – communal faucet and Level I – deep wells
158.	T.	**Wildlife Farming or any related projects [23] as defined by PAWB**			regardless of area	butterfly farming

GROUP III - Non-Environmentally Critical Projects in Non-Environmentally Critical Areas (NECPs in NECAs) - non-covered projects		
	A.	All Group II Project Types in NECA : PDR required to be submitted for Enhancement and Mitigation Projects as basis for confirmation of benign nature of proposed activity, and CNC is required to be secured. All other projects shall be at the option of the Proponent to prepare a PDR as basis for a CNC, should the Proponent opt to secure one.

GROUP IV - CO-LOCATED PROJECTS [1]		
159.	A.	Co-located projects (mix of single projects in a contiguous area optionally applied as one project under one area/zone administrator) shall be automatically required a Programmatic EIS regardless of capacity, area and number of locators/components.

GROUP V – UNCLASSIFIED PROJECTS		
All Unclassified Projects shall submit a Project Description as an interim documentary requirement. Unclassified Projects may be covered or non-covered by the EIS System subject to DENR-EMB Review of a Project Description. The outcome of review shall be a recommendation on the final EIA Report Type to be submitted as basis for issuing a CNC or ECC.		
		Project Type required to submit a Project Description Report (PDR)
160.	A.	Projects using new processes/technologies with uncertain impacts
161.	B.	All other projects not listed in **Groups I, II, III and IV**

Annex 2-1b, Project Grouping Matrix for Determination of EIA Report Type New Single & Co-located Projects, Revised Procedural Manual for DENR AO 30/2003, EMB, January 2008

EIA Coverage & Requirements Screening Checklists

EIA Coverage & Requirements Screening Checklist

Purposes of the Screening Checklist:

1. Self-Screening Form by the Proponent (unofficial, for guidance purposes)
2. Screening Validation Form by the EMB (official; signed copy may be transmitted to banks, economic/industrial zone administrators, other users who request EMB validation or any entity EMB may want to inform)
3. Site Inspection Report Form by the EMB for ECC/CNC applications
4. Site Inspection Report Form by the EMB for suspected or reported projects operating without ECC

Instructions: *Write legibly and put information or check mark (✓) in box, where appropriate.*

A. SCREENING FOR EIA COVERAGE AND REQUIREMENTS

1.	1.1 Purpose of Screening	☐ Proponent Self Screening for ☐ ECC ☐ CNC ☐ ECC Amendment ☐ EMB Screening for Validation ☐ Inquiry ☐ Site Inspection Report for: ☐ ECC/CNC/Amendment ☐ Proj w/out ECC
2.	Project Name	
3.	Project Location	Note: If project is in national waters or outside any LGU jurisdiction, pls state nearest LGU & distance.

Sitio/s	Barangay/s	Municipality/ies	Province/s	Region

4.	Proponent Name	
5.	Proponent Address	
6.	Contact Person Name	
7.	Proponent Means of Contact	Landline No : Fax No. : Mobile No : Email :
8.	Project Type or Undertaking	*Refer to Table 1 for new single projects or for types of project components of co-located projects, and Annex 2-1c for ECC amendment/modification proposal (if not listed, use DTI official nomenclature and classification number)*
9.	Project Status	☐ New ☐ Existing, for Modification (w/or w/out Expansion ☐ Operating without an ECC ☐ Previously not covered
10.	Main Project 's Components for both Multi-component Single Project Applications and for Co-Located Project Applications	*Refer to Annex 2-1b for new projects and Annex 2-1c for ECC amendment/modification proposal (if not listed, use DTI official nomenclature and classification number);*
11.	Project Size (main project component and sub-components)	Project Size* of Components 1. Main Component: 3. Sub-component #2 5. Sub-component #4 2. Sub-Component #1: 4. Sub-component #3 Etc… **e.g. Capacity (MW, m³, heads), production capacity (MT/year) and space allocation (km, ha,) See Annex 2-1b for examples.*
12.	Project Group based on Type of Threshold ONLY	Single Project * ☐ Group I (ECP) ☐ Group II ** (NECP in ECA) Co-located Project (Group IV) ☐ Unclassified Project (Group V) ☐ * *All new Projects are initially assumed located in ECA. Thus, there is no Grp III in the first level screening* **. *All new Projects are initially assumed located in ECA. Thus, there is no Grp III in the first level screening*
13.	EIA Report Type	☐ EIS ☐ EPRMP ☐ PEIS ☐ PEPRMP ☐ IEER ☐ IEEC ☐ PDR* ☐ Letter Request *For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance* - *If a component has an EIA Report requirement at a higher level than the main project component being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)* *NOTE: FOR PROJECTS UNDER Group I (all with EIS requirement) and Group II with PDR-threshold level), there is no need to undertake ECA screening. Step 13 is the final screening step. For projects under Group II with EIS or IEE threshold, proponent is advised to go to Step #14 if it wants the option to confirm the actual ECA status of the project for the purpose of determining non-coverage. If project location is confirmed*

	non-ECA, project shall not be required any report type or ECC. A PDR is optional, except for Group II and III environmental enhancement and mitigation projects and for all Group V projects. A PDR in any group results to the issuance of a CNC except when a project is found to have comments falling under EIS/IEE-threshold groupings in Group I or II * If a Proponent opts to secure a CNC for either Group II project with PDR-threshold level or Group III projects, Proponent must submit a PDR. Otherwise, project has no need to secure an ECC or a CNC.
14. Environmental Criticality of Location (ONLY FOR GROUP II PROJECT W/ EIS & IEE-BASED THRESHOLDS & WANT TO KNOW NON-COVERAGE OPTION)	Fill out Table 2b first as basis for filling out the ECA Summary Table 2a, then check appropriate box below: ☐ ECA* ☐ NECA** ☐ Uncertain*** **Any one confirmed ECA among the 12 ECA categories renders the project location an ECA.* ***All of the relevant ECA categories have to be confirmed by Proponent thru the mandated agencies as "not an ECA" before the project is considered a NECA. See footnote of Table 2b on "relevance" determination.* ****If no response or data from agencies, the "uncertain" rating renders the project location as ECA.* *For ECA Categories:* Specific Category | Legal Basis or Official Name of Specific ECA Category |
15. Final Project Group & EIA Report Type based on ECA Screening	Single Project ☐ Group II (NECP in ECA) ☐ Group III (NECP in NECA)
16. EIA Report Type	☐ EIS ☐ EPRMP ☐ PEIS ☐ PEPRMP ☐ IEER ☐ IEEC ☐ PDR ☐ Letter Request *For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance* *- If a component has an EIA Report requirement at a higher level than the main project being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)*
17. Processing/ Endorsing Authority	☐ EMB CO Director ☐ EIAMD Chief Refer to Table 3
18. Application Deciding Authority	☐ EMB RO Director ☐ EMB CO Director ☐ DENR Secretary
19. Filing Fee	PhP_____

B. RAPID SCREENING FOR ENVIRONMENTAL ISSUES

(Note: Optional for Proponent for Pre-Scoping Preparations; Required for EMB if project is required a Site Inspection Report prior to Substantive Review of procedurally-accepted applications)

Site-specific (ECA/Non-ECA) Potential Key Environmental Issues

Envi'l Component*	Potential Issues
Land	
Water	
Air	
People	

**Use Table 2b as basis for identification of environmental and social issues likely associated with the project's location in specific ECA category/ies. Otherwise, issues may be identified thru site inspection for a rapid screening/ observation of the project environment.*

SIGN-OFF PAGE FOR PROPONENT (For any purpose the Proponent may intend the self-screening to be used)

Prepared by Proponent: Signature over Printed Name	Date of Signing (MM/DD/YYYY)
Received by EMB: Signature over Printed Name	Date of Receipt (MM/DD/YYYY)

Remarks by EMB:

SIGN-OFF PAGE FOR EMB (For purposes # 2,3,4)

Prepared by EMB Region Office __: Signature over Printed Name	Date of Signing (MM/DD/YYYY)

Remarks by EMB Regional Office:

Remarks by EMB Central Office:

Table 1. Project Types (in bold letters) and sub-types (*Put check in appropriate box)*

GROUP I (ECPs in both ECAs and NECAs)	GROUP II (NECPs in ECAs)	GROUP III (NECPs in NECAs)
☐ A. Golf Course Projects ☐ A1. Golf course projects/complex ☐ B. Heavy Industries ☐ B1. Iron and Steel Mills ☐ B2.. Non-Ferrous Metal Industries ☐ B3. Petroleum and Petrochemical Industries ☐ B4. Smelting Plants ☐ C. Resource Extractive Industries ☐ C1. Fishery Projects – Dikes for / and Fishpond Development Projects ☐ C2. Forestry Projects ☐ C3. Major Mining and Quarrying Projects ☐ D. Infrastructure Projects ☐ D1. Major Dams ☐ D2. Major Reclamation Projects ☐ D3. Major Roads & Bridges ☐ D4. Major Power Plants	☐ A. Heavy Industries ☐ A1. Iron and Steel Mills ☐ A2. Non-Ferrous Metal Industries ☐ A3. Petroleum and Petrochemical Industries ☐ A4. Smelting Plants ☐ B. Resource Extractive Industries ☐ B1. Fishery Projects – Dikes for / and Fishpond Development Projects ☐ B2. Forestry Projects ☐ B3. Minor Mining and Quarrying Projects ☐ C. Infrastructure Industries ☐ C1. Minor Dams ☐ C2. Minor Power Plants ☐ C3. Minor Reclamation Projects ☐ C4. Minor Roads & Bridges ☐ C5. Other Power Plant (not listed in Proclamation No. 2146) ☐ D. Agriculture Industry ☐ D1. Agricultural Plantation (e.g. orchards, including rubber plantation) ☐ D2. Agricultural Processing Facilities ☐ D3. Cut-flower Industry/Projects ☐ D4. Livestock Production ☐ E. Buildings, Storage Facilities and Other Structures ☐ E1. Cemetery ☐ E2. Commercial, [Business centers with residential units (mixed use), malls, supermarkets, public markets] • Fast food/Restaurant Projects • Commercial Establishments (i.e. Showrooms) ☐ E3. Commercial, [office spaces only] • Institutional and other related facilities: religious, government, and educational ☐ E4. Facilities for Barangay Micro-Business Enterprises (BMBE) Projects ☐ E5. Family dwellings ☐ E6. Funeral parlors, crematório, columbarium ☐ E7. Institutional and other related facilities: medical facilities ☐ E8. Institutional and other structures with laboratory facilities ☐ E9. Motels, Hotels, Condominium/ Apartelles (residential) ☐ E10. LPG storage and refilling ☐ E11. Refilling station projects / gasoline station projects ☐ E12. Storage of petroleum, petrochemical or related products ☐ E13. Storage facilities, non-toxic/hazardous materials, substances or products ☐ E14. Storage facilities, toxic or hazardous materials, substances or products ☐ E15. Subdivision and housing projects, resettlement projects, economic and socialized housing project, open market housing and other similar (horizontal) land development projects ☐ E16. Telecommunication Projects ☐ F. Chemical Industries ☐ F1. Manufacturing, processing and/or use of substances included in the Priority Chemical List ☐ F2. Manufacture of explosives, propellants and industrial gases ☐ F3. Manufacture of agri-chemicals and other industrial chemicals not in the PCL ☐ F4. Pharmaceutical industries and manufacture of soap and detergents, health and beauty products, and other	☐ A. All Group II Project Types/Sub-Types in NECA

GROUP I (ECPs in both ECAs and NECAs)	GROUP II (NECPs in ECAs)	GROUP III (NECPs in NECAs)
	consumer products.	
	☐ F5. Surface coating industries (paints, pigments, varnishes, lacquers, anti-capacity fouling coating, printing inks)	
	☐ G. Cottage Industries	
	☐ H. Demonstration and Pilot Projects	
	☐ I. Environmental Enhancement and Environmental Mitigation Projects	
	☐ I1. Artificial Reef	
	☐ I2. Pollution control devices or facilities required under the ECC condition/s of the *"main"* project/s covered under Groups I or II.	
	☐ I3. Pollution control devices or similar facilities intended to prevent emissions and/or discharges beyond allowable limits (e.g. for compliance with Clean Air Act or Clean Water Code).	
	☐ I4. Preventive or proactive measures against potential natural hazards (such as shore protection, river embankment, river stabilization, seawall, etc.)	
	☐ I5. Reforestation projects	
	☐ J. Food and Related Industries	
	☐ J1. Animal products processing (fish/meat processing, canning, slaughterhouses, etc.)	
	☐ J2. Coconut processing plants (including production of coconut based products)	
	☐ J3. Distillation and Fermentation Plants (e.g. bio-ethanol project)	
	☐ J4. Food preservation (e.g., drying, freezing) and other methods aside from canning	
	☐ J5. Fruit and vegetable processing	
	☐ J6. Leather and related industries	
	☐ J7. Other types of food (and other food by-products, additives, etc.) processing industries	
	☐ J8. Processing of dairy products	
	☐ J9. Sugar Mills	
	☐ K. Manufacture of Other Products, e.g. Packaging Materials	
	☐ K1. Glass-based products	
	☐ K2. Metal-based products	
	☐ K3. Paper and plastic-based products	
	☐ L. Pipeline Projects	
	☐ L1. Fuel pipelines	
	☐ L2. Other pipelines	
	☐ M. Service Industries that do not emit pollutants except for domestic wastes and occupying a space equal to or less than limits specified in Groups I or II for infrastructure or other applicable project components needed in the service industry.	
	☐ N. Textile, Wood, Rubber Industries	
	☐ N1. Textile, Wood, Rubber Industries	
	☐ N2. Wood and Metal Furniture Assembly	
	☐ O. Tourism Industry	
	☐ O1. Resorts and other tourism/leisure projects	
	☐ P. Transport Terminal Facilities	
	☐ P1. Airports	
	☐ P2. Land transport terminal (for buses, jeepneys and other modes of transportation)	
	☐ P3. Sea port, causeways, and harbors	
	☐ Q. Treasure Hunting Projects in NIPAS	
	☐ R. Waste Management Projects	
	☐ R1. Compost/fertilizer making	
	☐ R2. Domestic wastewater treatment facility	
	☐ R3. Hazardous waste treatment, recycling, and/or disposal facilities (for recycling of lead, see details in Group I - Heavy Industries)	
	☐ R4. Industrial and hospital waste (non-hazardous) materials treatment facilities	
	☐ R5. Landfill for industrial and other wastes	
	☐ R6. Materials Recovery Facilities	
	☐ R7. Receiving facilities, paper, plastic, and	

GROUP I (ECPs in both ECAs and NECAs)	GROUP II (NECPs in ECAs)	GROUP III (NECPs in NECAs)

other materials recycling

☐ R8. Sanitary landfill for domestic wastes only

☐ S. Water Supply, Irrigation or Flood Control Projects

☐ S1. Impounding System or Flood Control Project

☐ S2. Irrigation System (Distribution System Only)

☐ S3. Water Supply Systems (Complete System)

☐ S4. Water Supply System (Distribution Only)

☐ T. Wildlife Farming or any related projects as defined by PAWB

☐ GROUP IV (Co-located Projects)

☐ GROUP V (Unclassified Projects)

Refer to Annex 2-1b for specific EIA Report Types for new projects or to Annex 2-1c for specific report requirements for modification proposals.

Table 2a. List of Environmentally Critical Areas *(Put check on appropriate box)*

NOTE: Refer to Table 2b for technical description of ECA and basis for filling out this table

☐ A. Areas declared by law as
- ☐ A1. national parks
- ☐ A2. watershed reserves
- ☐ A3. wildlife preserves
- ☐ A4. sanctuaries

☐ B. Areas set aside as aesthetic potential tourist spots

☐ C. Areas which constitute habitat for any endangered or threatened species of Philippine wildlife (flora and fauna)

☐ D. Areas of unique historic, archeological, geological, or scientific interests

☐ E. Areas which are traditionally occupied by cultural communities or tribes

☐ F. Areas frequently visited and or hard-hit by natural calamities
- ☐ F1. geologic hazards
- ☐ F2. floods
- ☐ F3. typhoons
- ☐ F4. volcanic activities

☐ G. Areas with critical slope

☐ H. Areas classified as prime agricultural lands

☐ I. Recharged areas of aquifers

☐ J. Water bodies

☐ K. Mangrove Areas

☐ L. Coral Reefs

Table 2b. ECA Related Issues Screening Checklist for ENVIRONMENTALLY CRITICAL AREAS (ECAs) [1]

Technical Description of Twelve (12) ECA Categories	The project falls within ECA description			Basis a) State specific official declaration of ECA b) List specific ECA at the project (e.g. slope)	Agency from/w here to get technical information (if not available from EMB) [2]
	Yes	No	Uncertain		
A. Areas declared by law as national parks, watershed reserves, wildlife preserves, and sanctuaries [3]					DENR-PAWB/ CENRO/PENRO
The laws referred to by this provision are Pres. Decree No. 705, as amended, otherwise called as the "Revised Forestry Code", Republic Act No. 7586 or the National Integrated Protected Areas System (NIPAS) Act, and other issuances including other proclamations, executive orders, local ordinances and international commitments and declarations.					
A "national park is defined under Section 4(c) of the NIPAS Act as a "forest reservation essentially of natural wilderness character which has been withdrawn from settlement, occupancy or any form of exploitation except in conformity with approved management plan and set aside as such exclusively to conserve the area or preserve the scenery, the natural and historic objects, wild animals and plants therein and to provide enjoyment of these features in such area."					
A "wildlife sanctuary" is defined under Section 4(m) of the NIPAS Act as "an area, which assures the natural conditions necessary to protect nationally significant species, groups of species, biotic communities or physical features of the environment where these may require specific human manipulations for their perpetuation."					
All other protected areas covered by NIPAS shall likewise be included in this category.					
B. Areas set aside as aesthetic, potential tourist spots					**DOT**

[1] Any one (1) confirmed ECA among the 12 ECA categories renders the project location an ECA. However, before a project location is considered in a Non-ECA (NECA), all of the likely relevant/applicable ECA categories (e.g. coral reef as an ECA category is not relevant for a project situated up in the mountains) have to be confirmed by Proponent thru the mandated agencies as "not an ECA". Shortlisting of relevant ECA categories shall be determined thru consultation with EMB. If there is no response or data from agencies on the request for confirmation, the "uncertain" rating renders the project location as ECA, per EMB protocols. The burden of proof lies with the Proponent in proving that the project is located in a NECA. DENR can only issue certification for ECA categories within its jurisdiction, as follows: water bodies by DENR-EMB; NIPAS areas, wildlife habitat and mangrove areas by DENR-PAWB and geologic hazards and areas in critical slope by DENR-MGB.

[2] Proponents claiming the project location is not located in an ECA must secure an official confirmation or conforme from the agency. The agency's confirmation should contain a statement that the project is located or not located within the applicable ECA technical criterion, or "unable to assess" due to lack or absence of information. In the case where there is no data from the agency, the proponent can gather information and submit it to the agency for evaluation and confirmation. The DENR shall not issue any certification beyond its jurisdiction, unless authorized by the respective agency with mandate on the ECA. In case no certification is obtained from the mandated agency, the location will be arbitrarily considered an ECA, following the Precautionary Principle. The word "certification" is applied only for the purpose of screening a projects coverage under the PEISS, and shall not in any way be considered a requirement for ECC/CNC application.

Technical Description of Twelve (12) ECA Categories	The project falls within ECA description			Basis a) State specific official declaration of ECA b) List specific ECA at the project (e.g. slope)	Agency from where to get technical information (if not available from EMB) [2]
	Yes	No	Uncertain		
					appropriate)
This refers to areas considered as wilderness areas and areas identified by the Protected and Wildlife Bureau (PAWB) to be natural habitats of endangered or threatened, rare and indeterminate species of flora and fauna.					
1. Indeterminate species shall refer to plant or animal species which are apparently endangered but where' data currently available are insufficient for a reliable assessment.					
2. Threatened species shall refer to any plant or animal species that is likely to become endangered species within the foreseeable future throughout all or just a significant portion of its range.					
3. Rare species shall refer to plant or animal species, which are not under immediate threat of extinction but occurs in small numbers.					
4. Endangered species shall refer to plant or animal species which are actively threatened with extinction and whose survival are unlikely without protective measures.					
D. Areas of unique historic, archeological, geological, or scientific interests					**NMWHWNCCA** (Whichever is appropriate)
This refers to areas which are more than 100 years old and declared by the National Historical Institute, National Museum or National Commission for Culture and the Arts, through national or local laws or ordinances as areas of cultural, historical and scientific significance to the nation, e.g. declared national historical landmarks, geological monuments, and paleontological and anthropological reservations.					
E. Areas which are traditionally occupied by cultural communities or tribes					**NCIP**
This refers to all ancestral lands of National Cultural Communities identified in Sec. 1 of P.D. No. 410 and settlements designed, implemented and maintained by the PANAMIN for national minorities (non-Muslim hill tribes referred to in P.D. No. 719) as may be amended by Republic Act No. 8371 the Indigenous Peoples Rights Act of 1997 (IPRA) and its IRR.					
This also refers to all areas that are occupied or officially claimed as ancestral lands or ancestral domains by indigenous communities as determined by the National Commission on Indigenous Peoples (NCIP). Proofs are the official applications or issuance of Certificate of Ancestral Domain Claim (CADC) or Certificate of Ancestral Domain Title (CADT) by NCIP.					

Technical Description of Twelve (12) ECA Categories	The project falls within ECA description			Basis a) State specific official declaration of ECA b) List specific ECA at the project (e.g. slope)	Agency from where to get technical information (if not available from EMB) [2]
	Yes	No	Uncertain		
F. Areas frequently visited and or hard-hit by natural calamities					
The area shall be so characterized if any of the following conditions exist:					
1. Geologic hazard areas: This refers to all areas identified by the Mines Geosciences Bureau as geologic hazard areas.					**DENR-MGB**
2. Flood-prone areas: This shall refer to low-lying areas usually adjacent to large active water bodies experiencing inundation of at least 2 meters, twice (2x) a year for the last five (5) years prior to the year of reckoning. For example, a determination made in 2007 will consider the available records from 2002 to 2006.					**LGU or NDCC**
3. Areas frequently visited or hard-hit by typhoons: This shall refer to all areas where typhoon signal no. 4 was hoisted for at least twice (2x) a year during the last five (5) years prior to the year of reckoning. For example, a determination made in 2007 will consider the weather records from 2002 to 2006.					**DOST-PAGASA**
4. Areas prone to volcanic activities/earthquakes: This refers to all areas identified as such by Philippine Institute of Volcanology and Seismology (PHIVOLCS), e.g. areas within permanent exclusion zones of active volcanoes or areas within the required minimum buffer zone of fault zones as determined by PHILVOCS [4].					**DOST-PHIVOLCS**
G. Areas with critical slope: This shall refer to all lands with slope of 50% or more classified as geohazard by MGB.					**DENR-MGB**
H. Areas classified as prime agricultural lands: Prime agricultural lands shall refer to lands that can be used for various or specific agricultural activities and can provide optimum sustainable yield with a minimum of inputs and developments costs as determined by the Department of Agriculture (DA).					**DA**
I. Recharge areas of aquifers					**NWRB**
Recharge areas of aquifers shall refer to sources of water replenishment where rainwater or seepage actually enters the aquifers.					
Areas under this classification shall be limited to all local or non-national watersheds and geothermal reservations.					

Technical Description of Twelve (12) ECA Categories	The project falls within ECA description			Basis a) State specific official declaration of ECA b) List specific ECA at the project (e.g. slope)	Agency from where to get technical information (if not available from EMB) [2]
	Yes	No	Uncertain		
J. **Water bodies** [3]: Water bodies shall refer to waters that are tapped for domestic purposes or those which support wildlife and fishery activities within declared protected areas, including the buffer zones					DENR-PAWB / CENRO / PENRO (whichever is appropriate)
K. **Mangrove Areas**: characterized by one or any combination of the following conditions:					
1. with primary pristine and dense young growth					**DENR-PAWB**
2. adjoining mouth or major river systems					**DENR-PAWB**
3. near or adjacent to traditional productive fry or fishing grounds .					LGU
4. which act as natural buffers against shore erosion, strong winds and storm floods					**DENR-PAWB**
5. on which people are dependent for their livelihood, pursuant to and taking into consideration Republic Act No. 7161 which prohibits the cutting of mangrove species					**DENR-PAWB/LGU** (whichever is appropriate)
L. **Coral Reefs:** characterized by one or any combination of the following conditions:					
1. With 50% and above live coralline cover					**DA-BFAR**
2. Spawning and nursery grounds for fish					**DA-BFAR**
3. Which act as a natural breakwater of coastlines					**DPWH/Concerned LGU** (whichever is appropriate)

[3] The CENRO or PENRO can only issue ECA certification for project locations within NIPAS and within the DENR (i.e. areas within wildlife habitats and in water bodies) mandate, and shall not issue ECA certification for the rest of the ECA categories, unless there is an official and explicit authorization from the DENR-EMB Director or from the DENR Secretary that the CENRO/ PENRO is authorized based on a bilateral agreement with other concerned government agencies with mandate on the ECA category.

[4] Supreme Court Decision on Case of DENR Region XI (Petitioner) vs. City of Davao (Respondent), (G.R. #148622, September 12,2002): "area outside the required minimum of five (5) meters from the fault zone" has been certified by PHILVOCS as not critical, and such certification has been considered by the SC as proof on non-ECA status of the area

Table 1-4. Summary Table of Project Groups, EIA Report Types, Decision Documents, Processing/Deciding Authorities and Processing Duration

PROJECT GROUPS/SUB-GROUPS		APPLIED TO	DOCUMENTS REQUIRED FOR ECC/CNC APPLICATION	DECISION DOCUMENT	PROCESSING RESPONSIBILITY (Endorsing Official)	DECIDING AUTHORITY	MAX TIME TO GRANT OR DENY ECC APPLICATION (Working Days)
I: Environmentally Critical Projects (ECPs) in either Environmentally Critical Area (ECA) or Non-Environmentally Critical Area (NECA)	I - A: New	Single Projects	Environmental Impact Statement (EIS)	ECC	CO: EIAMD Chief / EMB Director	EMB Director / DENR Secretary	120 days
	I - B: Existing Projects for Modification or Re-startup (subject to conditions in Annex 2-1c)	Single Projects	Environmental Performance Report and Management Plan (EPRMP) *	ECC	CO: EIAMD Chief/ EMB Director	EMB Director / DENR Secretary	90 days
	I - C: Operating without ECC	Single Projects	Environmental Performance Report and Management Plan (EPRMP) *	ECC	CO: EIAMD Chief/ EMB Director	EMB Director / DENR Secretary	90 days
II: Non-Environmentally Critical Projects (NECPs) in Environmentally Critical Area (ECA)	**II – A1**: New	Single Projects	Environmental Impact Statement (EIS)	ECC	RO: EIAMD Chief	EMB RO Director	60 days
			Initial Environmental Examination Report (IEER)	ECC	RO: EIAMD Chief	EMB RO Director	60 days
			Initial Environmental Examination Checklist (IEEC)	ECC	RO: EIAMD Chief	EMB RO Director	30 days
			Project Description Report (PDR) (At option of proponent)	CNC	CO: EIAMD Chief	EMB Director	15 days
					RO: EIAMD Chief	EMB RO Director	
	II – A2: New (enhancement and Mitigation projects)	Single Projects	Project Description Report (PDR) (required)	CNC or recommendation on Final Grouping and EIA Report Type **	CO: EIAMD Chief	EMB Director	
					RO: EIAMD Chief	EMB RO Director	
	II - B: Existing Projects for Modification or Re-startup (subject to conditions in Annex 2-1c)	Single Projects	Environmental Performance Report and Management Plan (EPRMP) *	ECC	RO: EIAMD Chief	EMB RO Director	30 days
			Project Description Report (PDR)	CNC	CO: EIAMD Chief	EMB Director	15 days
					RO: EIAMD Chief	EMB RO Director	
	II - C: Operating without ECC	Single Projects	Environmental Performance Report and Management Plan (EPRMP) *	ECC	RO: EIAMD Chief	EMB Director	30 days
III: Non-Environmentally Critical Projects (NECPs) in Non-Environmentally Critical Area (NECA)	**III – A1**: New (Enhancement and Mitigation Projects)	Single Projects	Project Description Report (PDR) (REQUIRED)	CNC	RO: EIAMD Chief	EMB Director	15 days
					RO: EIAMD Chief	EMB RO Director	
	III – A2: New (All Other Grp II Project Types/Sub-types in NECA)	Single Projects	Project Description Report (PDR) (AT OPTION OF PROPONENT)	CNC	RO: EIAMD Chief	EMB Director	15 days
					RO: EIAMD Chief	EMB RO Director	
IV: Co-located Projects	IV - A: New	Co-located Projects majority of which are Group I Projects	Programmatic Environmental Impact Statement (PEIS)	ECC	CO: EMB Director	DENR Secretary	180 days
		Co-located Projects majority of which are Group II Projects	Programmatic Environmental Impact Statement (PEIS)	ECC	RO: EIAMD Chief	EMB RO Director	60 days

PROJECT GROUPS/SUB-GROUPS		APPLIED TO	DOCUMENTS REQUIRED FOR ECC/CNC APPLICATION	DECISION DOCUMENT	PROCESSING RESPONSIBILITY (Endorsing Official)	DECIDING AUTHORITY	MAX TIME TO GRANT OR DENY ECC APPLICATION (Working Days)
	IV - B: Existing Projects for Modification or Re-start up of Co-located Projects	Co-located Projects majority of which are Group I Projects	Programmatic Environmental Performance Report and Management Plan (PEPR/MP)	ECC (new) / ECC Amendment	CO: EIAMD Chief	EMB Director / DENR Secretary	120 days
		Co-located Projects majority of which are Group II Projects	Programmatic Environmental Performance Report and Management Plan (PEPR/MP)	ECC (new) / ECC Amendment	RO: EIAMD Chief	EMB RO Director	60 days
	IV - C: Operating without ECC	Co-located Projects majority of which are Group I Projects	Programmatic Environmental Performance Report and Management Plan (PEPR/MP)	ECC (new) / ECC Amendment	CO: EMB Director	DENR Secretary	120 days
		Co-located Projects majority of which are Group II Projects	Programmatic Environmental Performance Report and Management Plan (PEPR/MP)	ECC (new) / ECC Amendment	RO: EIAMD Chief	EMB RO Director	60 days
V: Unclassified Projects	V - A: New		Project Description Report (PDR) (REQUIRED)	CNC or Recommendation on Final Grouping and EIA Report Type **	CO EIAMD Chief	EMB Director	15 days
					RO: EIAMD Chief	EMB RO Director	
* IF THE MODIFICATION DOES NOT REQUIRE A PEPR/MP OR EPRMP BASED ON ANNEX 2-1C, THE FOLLOWING APPLY:							
Request for Minor ECC Amendment		Single Projects with Applicable Modifications listed in Annex 2-1c	Letter Request	ECC Amendment	CO: EIAMD Review and Evaluation Section or Division Chief	EIAMD Chief/EMB Director	7 days
					RO: EIAMD Review and Evaluation Section Chief	EIAMD Chief	
Request for Major ECC Amendment		Single Projects with Applicable Modifications listed in Annex 2-1c	Letter Request and/or Updated Project Description or Update of other selected portions of the EIA Report (e.g. Baseline or impact assessment or EMP on the areas of amendment only)	ECC Amendment	CO: EIAMD Chief	EMB Director/ DENR Secretary	30 days
					RO: EIAMD Chief	EMB RO Director	

** The decision on "Recommendation on Final Grouping and EIA Report Type" is reached if project is evaluated to have Group I and II components which fall within EIS/IEE threshold level or report requirement, which then will require an ECC.

Determination of Jurisdiction over Projects

In case the project's area is located in an area, which falls under the jurisdiction of two (2) or more DENR-EMB ROs, the offices concerned shall determine the participation of the different offices involved in evaluating the EIA and decide on the issue or non-issuance of the ECC. The DENR-EMB RO, under whose jurisdiction majority of the project area is located, will be the lead office in evaluating the EIA submissions.

The chosen lead office shall also have the responsibility for compliance monitoring and other subsequent activities under the EIS System. The other DENR-EMB ROs concerned shall assist and participate in the review of the EIA submissions. The DENR-EMB ROs concerned shall agree upon the mode of collaboration.

In cases where the DENR-EMB ROs concerned cannot determine the lead office, the case shall be elevated to the EMB Director for resolution. The decision of the EMB Director shall be final. Furthermore, in cases where the issue of jurisdiction in difficult to determine (e.g., the project is located in territorial water which is not or is not clearly within the jurisdiction of any DENR RO), the EMB Director may assign the nearest DENR-EMB RO as the lead office.

The following illustrative cases provide basic guidance on how the DENR ROs shall decide the issue of jurisdiction:

Parameters: Region A covers provinces X and Y; Region B covers provinces L and M		
Case	**Situation**	**Jurisdiction**
1	project is located in province X impact area covers provinces X and Y	Region A
2	project is located in province X (30 ha.) and province L (5 ha.) impact area covers province X (50 ha.), Y (20 ha.) and L (50 ha.)	Region A - lead office Region B – participate in the review
3	project is located in province X (30 ha.) and province L (30 ha.) impact area covers province X (5 ha.), Y (20 ha.) and L (50 ha.)	Region A and B agree on who shall be the lead office, the other region shall participate in the review

Outlines of Required Documents by PEISS

Outlines of Required Documents by PEISS

Followings are outlines of the required documents for application of ECC in accordance with Memorandum Circular No.2010-14 (2010).

Outline of EIS, IEE and IEE Checklist (Proposed New Single Projects)

Executive Summary
• Project Fact Sheet PD Summary
• Process Documentation of the conduct of EIA (EIA Team, EIA Study Schedule & Area, EIA Methodology, Public Participation)
• Summary of Baseline Characterization Key Environmental Impacts and Management & Monitoring Plan and EMF & EGF Commitments
I. Project Description
1.1 Project Location and Area
• Map showing sitio, barangay, municipality, province, region boundaries, vicinity, proposed buffers surrounding the area and Primary & secondary impact areas
• Geographic coordinates (shape file data) of project area
• Rationale for selection primary & secondary impact areas
1.2 Project Rationale
Cite and focus on the need for the project based on national and local economic development and in terms of contribution to sustainable development agenda or current development thrusts of the Philippines
1.3 Project Alternatives
• Cite criteria used in determining preliminary options for facility siting, development design, process/technology selection, resource
utilization including discussion of the consequences of not proceeding with the project
• Reasons for selecting the preferred options delineated in terms of technical, commercial, social and natural environmental aspects
• summary of the comparative environmental impacts of each alterative
1.4 Project Components
• Major components
• other Support Facilities (Le. energy/power generating facility, water supply system)
• Pollution control devices and corresponding facilities being served or connected
• Footprint of proposed layout of project facilities
1.5 Process/ Technology Options
• Production process (indicate type of raw material & final product) if process industry; Construction if infrastructure such as buildings, roads & bridges
• Power generation & water supply system
• Waste Management Systems
1.6 Project Size
• total project area in square meters or hectares
• annual production rate & working days/hours if process industry
1.7 Development Plan, Description of Project Phases and Corresponding Timeframes
Phases to be described in terms identifying specific activities (w/ special attention on those with significant environmental impacts)
and corresponding projected implementation timeframes:
• Pre-construction (planning, acquisition of rights to use land,)
• Construction (land/site clearing, temporary housing, transport of materials, health and other services for the workforce)
• Operation (projected period of start-up/commissioning/full operation of various project components)
• Abandonment (Land/soil restoration, decontamination or remediation activities and procedures & projected year of Abandonment).
1.8 Manpower
Tabulate the following per project phase:
• manpower requirements;
• expertise/skills needed;

• nature & estimated number of jobs available for men, women indigenous peoples (if sited in IP ancestral land); preferred scheme for sourcing locally from host and neighboring LGUs and those from outside
1.9 Indicative Project Investment Cost
II. Analysis of Key Environmental Impacts
2.1 Land
2.1.1 Land Use and Classification
• Discuss inconsistencies/possible conflicts with existing land use/zoning/classification and encroachment in ECAs
• Discuss Projected change as a result of project implementation (Le. Loss of topsoil/overburden (for agricultural areas or adjacent to agricultural areas))
2.1.2 Geology/Geomorphology
Discuss Projected change and change management as a result of project implementation such as the following:
• Change in surface landform/ topography/ terrain/slope
• Change in sub-surface/ underground geomorphology
• Inducement of subsidence/ collapse
• Inducement of landslides or other natural hazards
2.1.3 Pedology
Analyze project's impact and provide management measures for the following as may be needed:
• erodability potential
• bank stability
• Change in soil quality/fertility
2.1.4 Terrestrial Biology
Analyze project's impact and provide management measures with regards to the following as may be needed:
• Vegetation removal and loss of habitat
• Threat to existence of important local species
• Threat to abundance, frequency and distribution of important species
• 4 Hindrance to wildlife access
2.2WATER
2.3.1 Hydrology/Hydrogeology
Analyze project's impact and provide management measures with regards to the following as may be needed:
• Change in drainage morphology
• Change in stream, lake water depth
• Reduction in stream volumetric flow
• Inducement of flooding
• Water resource use and competition
• Reduction/Depletion of groundwater flow
2.3.2 Oceanography
Analyze project's impact and provide management measures with regards to the following as may be needed:
• Change in circulation pattern
• Change in stream, lake water depth
• Change in bathymetry
2.3.3 Water Quality
• Identify specific source of possible pollution load and discuss assimilative capacity of the receiving water body (Le. groundwater,
stream water, lake water, marine water
• Include as part of the environmental management and monitoring plan, the sampling site map
2.3.4 Freshwater or Marine Ecology
Identify source of threat to ecology and discuss assimilative capacity of the receiving ecosystem
• Threat to abundance, frequency and distribution of species
• Loss of important species
• Loss of habitat
2.3 AIR
2.3.1 Meteorology/Climatology
• Discuss the project's possible effect on local climate if any
• Discuss the project's contribution to global greenhouse gas if any

2.3.2 Air Quality (& Noise)
• Identify specific source of possible pollution load and discuss assimilative capacity considering the ambient air quality/noise levels in the area
2.4 PEOPLE[1]
2.4.1 Identify settlers that will be displaced from among the existing settlers
2.4.2 Discuss the in-migration patterns impact as a result of project implementation
2.4.3 Discuss the impacts on IPs and Culture/lifestyle (if any)
2.4.4 Discuss the project implementation's threat to public health vis-a-vis the baseline health conditions in the area
2.4.5 Discuss local benefits expected from project implementation
2.4.6 Discuss how the project would affect the delivery of basic services and resource competition in the area
2.4.7 Discuss how the project would affect traffic situation in the area
2.4.8 Identify entity to be accountable for environmental management in the area
2.4.9 Discuss how the project would affect existing properties in the area in terms of relocation and devaluation
2.4.1 0 Identify affected properties
III. ENVIRONMENTAUECOLOGICAL RISK ASSESSMENT
Identify and provide management measures for:
• Chronic Risks
• Acute Risks / Worst Case Scenario
IV. IMPACTS MANAGEMENT PLAN
Limit to most significant impacts per project phase and per environmental component arising from key environmental aspects
The SOP and IEC Framework shall be required for all ECPs. These may be required for EIS-Based ECC applications for non ECPs
based on the EMB-RO's discretion.
The SOP of the project shall be derived from, and aligned with, the LGU's existing SOP. The project's SOP normally aims to prevent/mitigate and/or enhance a project's adverse and positive impacts, respectively, on people's livelihood, health and environment.
The SOP shall contain the following: a.) Livelihood or community development programs/activities, b.) Responsible community members/beneficiaries, c.) partner institutions(government, NGO, others), d.) timeframe implementation, and e.) source and amount per activity/component
The IEC Framework shall include the following information:
a. Target Sector Identified as Needing Project IEC
b. Major Topic/s of concern in Relation to Project
c. IEC Scheme / Strategy / Methods
d. Information Medium
e. Indicative Timelines and Frequency
f. Indicate Cost
The framework for compliance monitoring including environmental performance indicators shall serve as standards for determining compliance. This shall correspond to the baseline environmental parameter necessary to monitor the identified key environmental impacts for the specific sector/project type.
As a pro-active tool for minimization/elimination of adverse consequences to the environmental quality, the project proponent shall propose "Environmental Quality Performance Level" (EQPL) for each critical parameter identified above. At least two EQPLs are required namely the action and limit level. A third optional criterion is the early warning level which is actually a red-flagging alert level.
It shall also include description of the monitoring scheme and mechanisms to be employed:
• Self-Monitoring Plan
• Multi-sectoral Monitoring Framework (for ECPs and EIS-based Non-ECPs as deemed necessary by EMB RO)
• Environmental Guarantee and Monitoring Fund Commitment (for ECPs and EIS-based Non-ECPs as deemed necessary by EMB RO)
VII. EMERGENCY RESPONSE POLICY AND GENERIC GUIDELINES
The policy and generic guidelines are to be consistent with the relevant agencies' requirements that are to be

[1] This topic can include the resettlement action plans, compensation measures for land acquisition and livelihood development plans for the affected indigenous peoples

complied with after the EGG is issued, e.g. MGB has a prescribed ERP content for mining projects.
VIII. ABANDONMENT /DECOMMISSIONING IREHABILITATION POLICIES AND GENERIC GUIDELINES
Statement on Proponent's policies and generic procedures; Detailed Abandonment/Decommissioning Plan to be submitted post-EGG, within a timeframe specified in the EGG
IX. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION
Discuss the Table of Organization of the Proponent where the reporting line and manpower complement/positions of the EU, MEPEO or equivalent units to higher management and relationships with operating departments are shown

Source; Memorandum Circular No.2010-14 (2010)

Outline of PEIS (Proposed New Co-located Projects) (Maximum of 350 pages)

PROJECT FACTSHEET
TABLE OF CONTENTS
EXECUTIVE SUMMARY
CHAPTER 1 INTRODUCTION
1.1 Project Background and Rationale
1.2 PEIA Approach and Methodology
1.3 PEIA Public Participation
1.4 The PEIA Team
1.5 PEIA Schedule
CHAPTER 2 PROCESS DESCRIPTION
2.1 Project Location and Area Coverage
2.2 Development Framework
2.3 General Land Use Allocation
2.4 Phasing and Site Development Components
2.5 Process Description of Locator Plant
2.6 General Stages of Development and Activities
2.7 Organization and Management
2.8 Project Schedule and Cost
CHAPTER 3 ECOLOGICAL PROFILING
FOR AIR,WATER, LAND AND PEOPLE SECTOR
• Study Area Coverage
• Environmental Management Goals and Indicator Limits
• Approach and Methodology
• Environmental Status Assessment
• Carrying Capacity Analysis
• Environmental Management Strategies
• Monitoring Needs Assessment
CHAPTER 4 IMPACTS, HAZARDS AND RISK ANALYSIS
• ENVIRONMENTAL HEALTH IMPACT ASSESSMENT (EHIA)
• CHAPTER 4B INTEGRATED RISK ASSESSMENT
CHAPTER ENVIRONMENTAL MANAGEMENT PLAN
ANNEXES
BIBLIOGRAPHY

Source; Memorandum Circular No.2010-14 (2010)

Outline of EPRMP (Single Project Expansion/Modification)

Executive Summary
• Project Fact Sheet PD Summary
• Process Documentation of the conduct of EIA (EIA Team, EIA Study Schedule & Area, EIA Methodology, Public Participation)
• Summary of Baseline Characterization Key Environmental Impacts and Management & Monitoring Plan and EMF & EGF Commitments
I. Project Description

1.1 Project Location and Area

• Map showing sitio, barangay, municipality, province, region boundaries, vicinity, proposed buffers surrounding the area and Primary & secondary impact areas

• Geographic coordinates (shape file data) of project area

• Rationale for selection primary & secondary impact areas

1.2 Project Rationale

Cite and focus on the need for the project based on national and local economic development and in terms of contribution to sustainable development agenda or current development thrusts of the Philippines

1.3 Project Alternatives

• Cite criteria used in determining preliminary options for facility siting, development design, process/technology selection, resource utilization including discussion of the consequences of not proceeding with the project

• Reasons for selecting the preferred options delineated in terms of technical, commercial, social and natural environmental aspects

• summary of the comparative environmental impacts of each alternative

1.4 Project Components

In Matrix form, describe / identify the existing, proposed expansion/modification & resulting final project scope in terms of:

• Major components

• other Support Facilities (Le. energy/power generating facility, water supply system)

• Pollution control devices and corresponding facilities being served or connected

• Footprint of proposed layout of project facilities

1.5 Process/ Technology Options

In Matrix form, describe / identify the existing, proposed modification & resulting final process/technology in terms of:

• Production process (indicate type of raw material & final product) if process industry; Construction if infrastructure such as buildings, roads & bridges

• Power generation & water supply system

• Waste Management Systems

1.6 Project Size

In Matrix form, describe the existing, proposed expansion & resulting total capacity/project scope in terms of:

• total project area in square meters or hectares

• annual production rate & working days/hours if process industry

1.7 Development Plan, Description of Project Phases and Corresponding Timeframes

Phases to be described in terms identifying specific activities (w/ special attention on those with significant environmental impacts) and corresponding projected implementation timeframes:

• Pre-construction (planning, acquisition of rights to use land,)

• Construction (land/site clearing, temporary housing, transport of materials, health and other services for the workforce)

• Operation (projected period of start-up/commissioning/full operation of various project components)

• Abandonment (Land/soil restoration, decontamination or remediation activities and procedures & projected year of Abandonment).

1.8 Manpower

Tabulate the following per project phase:

• manpower requirements;

• expertise/skills needed;

• nature & estimated number of jobs available for men, women indigenous peoples (if sited in IP ancestral land);

preferred scheme for sourcing locally from host and neighboring LGUs and those from outside

1.9 Indicative Project Investment Cost

II. Analysis of Key Environmental Impacts

2.1 LAND

2.1.1 Land Use and Classification

• Discuss actual performance/experience in terms of how impacts were addressed in the implementation of the original project plan & any additional related issues with the proposed expansion/modification & how they will be addressed

• Discuss historical environmental performance & how it will be improved or maintained as needed

2,1,2 Geology/Geomorphology

Discuss actual performance/experience in terms of how the impacts were addressed in the implementation of the original project plan & any additional related issues with the proposed expansion/modification & how they will be addressed

2.1.3 Pedology

Discuss erosion history & change in soil quality/fertility with the implementation of the original project plan & any additional impact of the expansion/modification in terms of:

• erodability potential
• bank stability
• Change in soil quality/fertility

2.1.4 Terrestrial Biology

Discuss actual environmental management performance/experience with the implementation of the original project plan & any additional impact of the expansion/modification with respect to the following:

• Vegetation removal and loss of habitat
• Threat to existence of important local species
• Threat to abundance, frequency and distribution of important species
• Hindrance to wildlife access

2,2WATER

2.3,1 Hydrology/Hydrogeology

Discuss actual environmental management performance/experience with the implementation of the original project plan & any additional impact of the expansion/modification with respect to the following:

• Change in drainage morphology
• Change in stream, lake water depth
• Reduction in stream volumetric flow
• Inducement of flooding
• Water resource use and competition
• Reduction/Depletion of groundwater flow

2.3.2 Oceanography

Discuss actual environmental management performance/experience with the implementation of the original project plan & any additional impact of the expansion/modification with respect to the following:

• Change in circulation pattern
• Change in stream, lake water depth
• Change in bathymetry

2.3,3 Water Quality

• Identify additional & total source of possible pollution load and discuss assimilative carrying capacity of the receiving water body (i.e, groundwater, stream water, lake water, marine water)
• Discuss actual environmental management performance/experience with the implementation of the original project plan & any additional impact of the expansion/modification
• Include as part of the environmental management and monitoring plan, the actual sampling site map and any changes in sampling site as a result of the expansion/modification

2,3.4 Freshwater or Marine Ecology

Discuss actual environmental management performance/experience with the implementation of the original project plan & any additional impact of the expansion/modification with respect to the following:

• Threat to abundance, frequency and distribution of species
• Loss of important species
• Loss of habitat

2.3 AIR

2.3.1 Meteorology/Climatology

• Discuss the existing project's effect on local climate and corresponding effect of the expansion/modification, if any
• Discuss the existing project's contribution to global greenhouse gas and corresponding effect of the expansion/modification, if any

2,3.2 Air Quality (& Noise)

• Identify additional & total source of possible pollution load and discuss assimilative capacity considering the ambient air quality/noise levels in the area

2.4 PEOPLE

Discuss how the following were handled in the original project and identify additional of such for the expansion /modification:

2.4.1 Displacement of settlers

2.4.2 Impact of In-migration patterns as a result of project implementation
2.4.3 impacts on IPs and Culture/Lifestyle (if any)
2.4.4 project implementation's threat to public health vis-à-vis the baseline health conditions in the area
2.4.5 local benefits expected from project implementation
2.4.6 Effect on the delivery of basic services and resource competition in the area
2.4.7 Effect on traffic situation in the area
2.4.8 Entity to be accountable for environmental management in the area
2.4.9 Effect on existing properties in the area in terms of relocation and devaluation
2.4.10 Other affected properties
III. ENVIRONMENTAUECOLOGICAL RISK ASSESSMENT
Discuss actual experience with the implementation of the original project plan & any additional impact of the expansion/modification with respect to the following:
• Chronic Risks
• Acute Risks / Worst Case Scenario
IV. IMPACTS MANAGEMENT PLAN (IMP)
Discuss occurrence of the projected impacts and how this was managed with the original project implementation. Discuss adjustments that should be made in consideration of the expansion/modification and present the revised IMP.
V. Social Development Plan (SDP) and IEC Implementation
The SDP and IEC Framework required for all ECPs and for EIS-Based ECC applications for non ECPs (at the EMB-RO's discretion) for the original project shall have been implemented.
For the expansion/modification, this part of EIA Study Report shall be focused on the discussion of the status of implementation of SDP and IEC commitments. Any necessary change in the SDP and IEC in consideration of the expansion/modification shall be identified
VI. ENVIRONMENTAL COMPLIANCE MONITORING
An analysis of the "Environmental Quality Performance level" (EQPl) monitoring for each critical parameter identified for the original project implementation shall be discussed here. Additional monitoring parameters for the expansion/modification or identified lacking parameters based on the monitoring results shall be presented and incorporated in the revised monitoring plan.
A description of the monitoring scheme and mechanisms actually being employed such as the following shall be discussed:
• Self-Monitoring Plan
• Multi-sectoral Monitoring Framework (for ECPs and EIS-based Non-ECPs as deemed necessary by EMB RO)
• Environmental Guarantee and Monitoring Fund Commitment (for ECPs and EIS-based Non-ECPs as deemed necessary by EMB
RO)
Any proposed changes / addendum to the existing scheme shall be discussed
VII. EMERGENCY RESPONSE POLICY AND GENERIC GUIDELINES
Status of the implementation of the policy and generic guidelines and any proposed change shall be discussed here.
VIII. ABANDONMENT IDECOMMISSIONING IREHABILITATION POLICIES AND GENERIC GUIDELINES
IX. Status of the implementation of the policy and generic guidelines and any proposed change shall be discussed here.
X. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION
Update on the Table of Organization of the Proponent where the reporting line and manpower complement/positions of the EU, MEPEO or equivalent units to higher management and relationships with operating departments are shown

Source; Memorandum Circular No.2010-14 (2010)

Outline of PEPRMP (Expansion/Modification Projects) (maximum of 200 pages)

Project Fact Sheet
Table of Contents
Executive Summary
1) Brief Description of the Co-located Projects vis-a-vis the proposed expansion or changes
2) Brief Summary of Project's EIA Process
3) Brief description of the baseline environmental conditions focused on the critical parameters
4) Summary on the EIA Findings on the Key Significant Impacts of the Project and corresponding EMP highlights
5) Summary of the Environmental Monitoring Plan on the most significant impacts and key measures

DRAFT MAIN PEPRMP

1.0 BASIC PROJECT INFORMATION

2.0 DESCRIPTION OF THE PROJECT'S EIA PROCESS

2.1 Terms of Reference of the EIA Study

2.2 EIA Team (Proponent & Preparer Team members, module of involvement, expertise)

2.3 EIA Study Schedule

2.4 EIA Study Area (project area up to extent of coverage of study)

2.5 EIA Methodology (per module)

2.6 EIA Public Participation Initiatives (if any)

2.0 PROJECT DESCRIPTION

Identify scope of original ECC and/or existing facilities and proposed expansion/modification. Discuss the master plan of the original project vis-à-vis the actual project implementation and changes in the master plan.

4.0 IMPACT ASSESSMENT & MITIGATION (limit to relevant modules)

This section shall discuss carrying capacity for the applicable regulated pollutant based on actual discharges. It shall also discuss discharge allocation and 'maximum allowable limits' (MAL) status with the implementation of the original project and corresponding plans with the implementation of the expansion/modification projects. The following sectors shall be tackled here:

4.1 The Land

4.2 The Water

4.3 The Air

4.4 People

5.0 ENVIRONMENTAL PERFORMANCE BASED ON THE ORIGINAL ECC-COVERED

ENVIRONMENTAL MANAGEMENT PLAN - (This section shall discuss actual and applicable environmental management and monitoring plan including any EMS.)

5.1. Impact(s) Mitigation Plan (IMP)

5.2. Environmental Monitoring Plan (EMoP) and other Monitoring Modes

5.3. Information, Education and Communication (IEC) and Social Development Program

(SOP) or Community Assistance Program (CAP)

5.4. Environmental Risk Management and Emergency Response Programs (ERP)

5.5. Abandonmen/Rehabilitation Programs

5.6. Institutional Set-up

5.7. Achievements/Awards and Outstanding Accomplishments on the Environment

6.0 ENVIRONMENTAL RISK ASSESSMENT - (when applicable - this section shall discuss the safety records of the preceding two years. Highlights of the hazard assessment/analysis, ORA or other safety studies should also be discussed.)

7.0 ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR CURRENT PROJECT & PROPOSED MODIFICATIONI EXPANSION - including EMF and EGF

8.0 BIBLIOGRAPHY

9.0 ANNEXES

9.1. Commitments or Agreements

9.2. Accountability Statements of Preparers & Proponent

9.3. Photographs or plates of the project site, impact areas an affected areas and communities

9.4. Environmental Data

NOTE: The EIA Findings on the project's environmental impacts and management measures will advise DOH if the project will pose a public health risk to the environment. For this purpose, DOH shall provide DENR-EMB with a declaration of Health Sensitive Projects and Health Sensitive Areas. Until such time, DOH shall review EHIA independently of the EIA Process. Further, workers' HIA component of the EHIA is recommended to be coordinated by DOH with DOLE for the latter's consideration in its requirement of an Occupational Health and Safety Program from the Proponent.

Source; Memorandum Circular No.2010-14 (2010)