

BP Form 201 - Agency Request - CO
(In Thousand Pesos)

Department : Department of Environment and Natural Resources (DENR)
 Agency : National Mapping and Resource Information Authority
 Operating Unit : < not applicable >
 Authorization :
 Tier 1

UACS Code(s)	Cost Structure/Programs/ Activities/Projects	Buildings and Other Structures		Office Equipment	Information and Communication Technology Equipment	Machinery and Equipment Outlay				Transportation Equipment Outlay	TOTAL	
		Buildings	Other Structures			Communication Equipment	Printing Equipment	Technical and Scientific Equipment	ICT Software	Other Machinery and Equipment		Motor Vehicles
(1)	(2)											
10000000000000	General Administration and Support	0	0	0	0	0	0	0	0	0	0	0
100000100001000	General Management and Supervision	0	0	0	0	0	0	0	0	0	0	0
300000000000000	Operations	0	0	0	13,441	0	0	0	0	0	6,200	19,841
310000000000000	OO : Adaptive capacities of human communities and natural systems Improved	0	0	0	13,441	0	0	0	0	0	6,200	19,841
310100000000000	MAPPING AND RESOURCE INFORMATION PROGRAM	0	0	0	13,441	0	0	0	0	0	6,200	19,841
310100100001000	Hydrographic and Oceanographic Surveys and Nautical Charting	0	0	0	0	0	0	0	0	0	6,200	6,200
310100100002000	Topographic Base Mapping and Geodetic Surveys	0	0	0	0	0	0	0	0	0	0	0
310100100003000	Resource Assessment and Mapping	0	0	0	0	0	0	0	0	0	0	0
310100100004000	Geospatial Information Management	0	0	0	13,441	0	0	0	0	0	0	13,441
Grand Total		0	0	0	13,441	0	0	0	0	0	6,200	19,841

UACS Code(s)	Cost Structure/Programs/ Activities/Projects	Buildings and Other Structures		Office Equipment	Information and Communication Technology Equipment	Machinery and Equipment Outlay				Transportation Equipment Outlay	TOTAL	
		Buildings	Other Structures			Communication Equipment	Printing Equipment	Technical and Scientific Equipment	ICT Software	Other Machinery and Equipment		Motor Vehicles
(1)	(2)											
100000000000000	General Administration and Support	0	0	0	7,061	0	1,117	0	16,276	6,320	9,374	40,148
100000100001000	General Management and Supervision	0	0	0	7,061	0	1,117	0	16,276	6,320	9,374	40,148
300000000000000	Operations	10,000	1,100	227	356,864	10,000	56,628	699,268	190,271	91,100	21,480	1,436,918
310000000000000	OO : Adaptive capacities of human communities and natural systems Improved	10,000	1,100	227	356,864	10,000	56,628	699,268	190,271	91,100	21,480	1,436,918
310100000000000	MAPPING AND RESOURCE INFORMATION PROGRAM	10,000	1,100	227	356,864	10,000	56,628	699,268	190,271	91,100	21,480	1,436,918
310100100001000	Hydrographic and Oceanographic Surveys and Nautical Charting	0	0	0	59,755	10,000	10,920	587,500	153,182	91,100	6,480	918,917
310100100002000	Topographic Base Mapping and Geodetic Surveys	10,000	0	0	145,900	0	14,042	98,000	29,912	0	15,000	312,854
310100100003000	Resource Assessment and Mapping	0	1,100	227	57,890	0	30,562	13,768	6,672	0	0	110,219
310100100004000	Geospatial Information Management	0	0	0	93,319	0	1,104	0	505	0	0	94,928
Grand Total		10,000	1,100	227	363,925	10,000	57,745	699,268	206,547	97,420	30,834	1,477,066

UACS Code(s)	Cost Structure/Programs/ Activities/Projects	Buildings and Other Structures		Office Equipment	Information and Communication Technology Equipment	Machinery and Equipment Outlay				Transportation Equipment Outlay	TOTAL	
		Buildings	Other Structures			Communication Equipment	Printing Equipment	Technical and Scientific Equipment	ICT Software	Other Machinery and Equipment		Motor Vehicles
(1)	(2)											
100000000000000	General Administration and Support	0	0	0	7,061	0	1,117	0	16,276	6,320	9,374	40,148
100000100001000	General Management and Supervision	0	0	0	7,061	0	1,117	0	16,276	6,320	9,374	40,148
300000000000000	Operations	10,000	1,100	227	370,305	10,000	56,628	699,268	190,271	91,100	27,660	1,456,559
310000000000000	OO : Adaptive capacities of human communities and natural systems Improved	10,000	1,100	227	370,305	10,000	56,628	699,268	190,271	91,100	27,660	1,456,559
310100000000000	MAPPING AND RESOURCE INFORMATION PROGRAM	10,000	1,100	227	370,305	10,000	56,628	699,268	190,271	91,100	27,660	1,456,559
310100100001000	Hydrographic and Oceanographic Surveys and Nautical Charting	0	0	0	59,755	10,000	10,920	587,500	153,182	91,100	12,660	925,117
310100100002000	Topographic Base Mapping and Geodetic Surveys	10,000	0	0	145,900	0	14,042	98,000	29,912	0	15,000	312,854
310100100003000	Resource Assessment and Mapping	0	1,100	227	57,890	0	30,562	13,768	6,672	0	0	110,219
310100100004000	Geospatial Information Management	0	0	0	106,760	0	1,104	0	505	0	0	108,369
Grand Total		10,000	1,100	227	377,366	10,000	57,745	699,268	206,547	97,420	37,034	1,496,707

PREPARED BY:


 GRACE A. TOLENTINO
 Administrative Officer V


 XENIA R. ANDRES
 Chief, Policy and Planning Division

CERTIFIED CORRECT:


 LORENZO W. FERNANDEZ
 OIC Chief, Accounting Section

APPROVED:


 UIC PETER J. TIA, GCO, PhD, CESO I
 Administrator

DATE:

22/04/2026
 DAY/MO/YEAR

BP FORM 201- SCHEDULE D
OBLIGATIONS, BY OBJECT OF EXPENDITURES
CAPITAL OUTLAY
(IN P'000)

DEPARTMENT : ENVIRONMENT AND NATURAL RESOURCES
 AGENCY : NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
 OPERATING UNIT :
 AUTHORIZATION :

YEAR: (Please Check)		Actual Obligations
	2024	Current Program
	2025	Total Proposed Program
-/	2027	TIER 1
-/		TIER 2

UACS CODE (B)	COST STRUCTURE/PROGRAMS/ACTIVITIES/PROJECTS	PROPERTY, PLANT AND EQUIPMENT OUTLAY												TOTAL	
		BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT							TRANSPORTATION EQUIPMENT		FURNITURE, FIXTURES & BOOKS		
		Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Printing	Technical & Scientific	ICT Software	Other Mach & Equip.	Motor Vehicles	Watercrafts		Furniture & Fixtures
	A. PROGRAMS														
10000000000000	1. General Administration and Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103001000100000	General Management and Supervision														
	Office of the Administrator														
	Administrative Division														
	Financial & Management Division														
	Policy and Planning Division														
	Engineering Support Division														
103001000200000	Human Resource Development														
	Human Resource Development														
	Gender and Development														
103001000300000	Administration of Personnel Benefits														
	SUB-TOTAL (GAAS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	II - Operations														
103003010100000	1. Hydrographic and Oceanographic Survey and Nautical Charting														
	1. Hydrographic Survey														
	2. Nautical Charting and Maritime Publication														
	3. Physical Oceanographic Surveys														
	4. Maritime and Ocean Affairs														
103003010200000	2. Topographic Base Mapping and Geodetic Survey														
	1. Topographic Base Mapping														
	1.1 Large Scale Mapping 1:4000														
	1.2 Updating of Large-Scale Topographic Maps @ scale 1:10,000														
	1.3 Medium and Small Scale Mapping														
	1.4 Administrative Mapping														
	1.5 Updating of Philippine Gazetteer														
	1.6 Reproduction of maps (no. of maps and nautical charts printed)														
	Enhancement of the Nationwide Digital Elevation Model (DEM) Through IFSAR Technology														
	2. Modernization of the PGRS														
103003010300000	3. Resource Assessment and Mapping														
	1. Coastal Resource Mapping and Assessment														
	2. Forestland Evaluation and Mapping														
	3. Land Cover Mapping														
	4. ENR Data Integration for Mapping of Existing Land Uses														
	5. Enhancing Earthquake Resilience Through Advanced Mapping of Safe Open Spaces and Critical Lifelines Facilities in GMAA and other High Risk Area in the Philippines														
	6. Cloud-Powered Resource Assessment and Mapping Information														
103003010400000	4. Geospatial Information Management					13,441									13,441
	1. Geospatial System Development														
	2. Geospatial Database Management					3,999.00									3,999.00
	3. Geospatial Information Services														
	4. Geospatial Information and Communication Technology					9,442.00									9,442.00
	SUB-TOTAL (OPERATIONS)					13,441							6,200		19,641
	TOTAL					13,441							6,200		19,641
	Locally Funded project:														
	GRAND TOTAL (TIER 1)					13,441							6,200		19,641

Prepared by:

Certified Correct:

Approved by:

Date:


GRACE A. TOLENTINO
 Budget Officer


XENIA R. ANDRES
 Planning Officer


LORENZO W. FERNANDEZ
 OIC-Chief, Accounting Section


Asst. Sec. PETER N. TIANGCO, PhD, CESO I
 Head of Office / Agency

Day/Month/Year

**BP FORM 201- SCHEDULE D
OBLIGATIONS, BY OBJECT OF EXPENDITURES
CAPITAL OUTLAY
(IN P000)**

DEPARTMENT : ENVIRONMENT AND NATURAL RESOURCES
AGENCY : NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
OPERATING UNIT :
AUTHORIZATION :

YEAR: (Please Check)
2024 Actual Obligations
2025 Current Program
- / 2027 Total Proposed Program
TIER 1
- / TIER 2

UACS CODE (S)	COST STRUCTURE/PROGRAMS/ACTIVITIES/PROJECTS	PROPERTY, PLANT AND EQUIPMENT OUTLAY												TOTAL	
		BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT							TRANSPORTATION EQUIPMENT		FURNITURE, FIXTURES & BOOKS		
		Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Printing	Technical & Scientific	ICT Software	Other Mach & Equip.	Motor Vehicles	Watercrafts		Furniture & Fixtures
A. PROGRAMS															
10000000000000	1. General Administration and Support	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
103001000100000	General Management and Supervision	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
103001000200000	Human Resource Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103001000300000	Administration of Personnel Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SUB-TOTAL (GAAS)	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
II. Operations															
103003010100000	1. Hydrographic and Oceanographic Survey and Nautical Charting	-	-	-	-	59,755	10,000	10,920	587,500	153,182	91,100	6,460	-	-	918,917
	1. Hydrographic Survey	-	-	-	-	27,275	10,000	6,200	397,300	53,150	76,800	-	-	-	570,725
	2. Nautical Charting and Maritime Publication	-	-	-	-	11,190	-	4,720	-	58,233	-	-	-	-	74,143
	3. Physical Oceanographic Surveys	-	-	-	-	13,196	-	-	190,200	25,900	14,300	6,460	-	-	250,056
	4. Maritime and Ocean Affairs	-	-	-	-	8,094	-	-	-	15,899	-	-	-	-	23,993
103003010200000	2. Topographic Base Mapping and Geodetic Survey	10,000	-	-	-	145,900	-	14,042	98,000	29,912	-	15,000	-	-	312,854
	1. Topographic Base Mapping	-	-	-	-	138,900	-	14,042	52,500	29,912	-	15,000	-	-	250,354
	1.1 Large Scale Mapping 1:4000	-	-	-	-	13,530	-	-	-	-	-	-	-	-	13,530
	1.2 Updating of Large-Scale Topographic Maps @ scale 1:10,000	-	-	-	-	60,800	-	3,067	-	29,912	-	-	-	-	93,779
	1.3 Medium and Small Scale Mapping	-	-	-	-	9,120	-	-	-	-	-	-	-	-	9,120
	1.4 Administrative Mapping	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5 Updating of Philippine Gazetteer	-	-	-	-	30,342	-	-	-	-	-	-	-	-	30,342
	1.6 Reproduction of maps (no. of maps and nautical charts printed)	-	-	-	-	11,303	-	10,375	-	-	-	-	-	-	21,678
	Enhancement of the Nationwide Digital Elevation Model (DEM) Through PSAR Technology	-	-	-	-	13,805	-	600	52,500	-	-	15,000	-	-	81,905
	2. Modernization of the FGRS	10,000	-	-	-	7,000	-	-	45,500	-	-	-	-	-	62,500
103003010300000	3. Resource Assessment and Mapping	-	1,100	-	227	57,890	-	30,562	13,768	6,672	-	-	-	-	110,219
	1. Coastal Resource Mapping and Assessment	-	1,100	-	-	8,978	-	2,899	2,100	-	-	-	-	-	15,077
	2. Forestland Evaluation and Mapping	-	-	-	-	8,314	-	1,621	9,008	-	-	-	-	-	18,943
	3. Land Cover Mapping	-	-	-	-	6,768	-	1,621	-	-	-	-	-	-	8,389
	4. ENR Data Integration for Mapping of Existing Land Uses	-	-	-	-	5,769	-	1,621	1,820	-	-	-	-	-	9,210
	5. Enhancing Earthquake Resilience Through Advanced Mapping of Safe Open Spaces and Critical Lifelines Facilities in GMAA and other High Risk Areas in the Philippines	-	-	-	227	7,661	-	-	840	572	-	-	-	-	9,300
	6. Cloud-Powered Resource Assessment and Mapping Information System (CPRAMIS)	-	-	-	-	20,400	-	22,800	-	6,100	-	-	-	-	49,300
103003010400000	4. Geospatial Information Management	-	-	-	-	93,319	-	1,104	-	505	-	-	-	-	94,928
	1. Geospatial System Development	-	-	-	-	12,900	-	-	-	-	-	-	-	-	12,900
	2. Geospatial Database Management	-	-	-	-	5,001	-	1,104	-	-	-	-	-	-	6,105
	3. Geospatial Information Services	-	-	-	-	7,519	-	-	-	-	-	-	-	-	7,519
	4. Geospatial Information and Communication Technology	-	-	-	-	67,899	-	-	-	505	-	-	-	-	68,404
	SUB-TOTAL (OPERATIONS)	10,000	1,100	-	227	356,864	10,000	56,628	699,268	190,271	91,100	21,460	-	-	1,436,918
	TOTAL	10,000	1,100	-	227	363,925	10,000	57,745	699,268	206,547	97,420	30,834	-	-	1,477,066
	Locally Funded project:														
	GRAND TOTAL (TIER 2)	10,000	1,100	-	227	363,925	10,000	57,745	699,268	206,547	97,420	30,834	-	-	1,477,066

Prepared by:

Certified Correct:

Approved by:

Date:


GRACE A. TOLENTINO
Budget Officer


XENIA R. ANDRES
Planning Officer


LORENZO W. FERNANDEZ
OIC-Chief, Accounting Section


Peter N. TIANO, Ph.D., CESO I
Head of Office / Agency

Day/Month/Year

BF FORM 201- SCHEDULE D
OBLIGATIONS, BY OBJECT OF EXPENDITURES
CAPITAL OUTLAY
(IN P000)


DEPARTMENT : ENVIRONMENT AND NATURAL RESOURCES
 AGENCY : NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
 OPERATING UNIT :
 AUTHORIZATION :


YEAR: (Please Check)	2025	Actual Obligations
	2026	Current Program
	2027	Total Proposed Program
		TIER 1
		TIER 2

UACS CODE (S)	COST STRUCTURE/PROGRAMS/ACTIVITIES/PROJECTS	PROPERTY, PLANT AND EQUIPMENT OUTLAY													TOTAL
		BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT					TRANSPORTATION EQUIPMENT			FURNITURE, FIXTURES & BOOKS			
		Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Printing	Technical & Scientific	ICT Software	Other Mach & Equip.	Motor Vehicles	Watercrafts	Furniture & Fixtures	
A. PROGRAMS															
10000000000000	1. General Administration and Support	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
103001000100000	General Management and Supervision	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
103001000200000	Human Resource Development	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Human Resource Development														
	Gender and Development														
103001000300000	Administration of Personnel Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SUB-TOTAL (GAAS)	-	-	-	-	7,061	-	1,117	-	16,276	6,320	9,374	-	-	40,148
II. Operations															
103003010100000	1. Hydrographic and Oceanographic Survey and Nautical Charting	-	-	-	-	59,755	10,000	10,920	587,500	153,182	91,100	12,660	-	-	925,117
	1. Hydrographic Survey	-	-	-	-	27,275	10,000	6,200	397,300	53,150	76,800	6,200	-	-	576,925
	2. Nautical Charting and Maritime Publication	-	-	-	-	11,190	-	4,720	-	58,233	-	-	-	-	74,143
	3. Physical Oceanographic Surveys	-	-	-	-	13,196	-	-	190,200	25,900	14,300	6,460	-	-	250,056
	4. Maritime and Ocean Affairs	-	-	-	-	8,094	-	-	-	15,899	-	-	-	-	23,993
103003010200000	2. Topographic Base Mapping and Geodetic Survey	10,000	-	-	-	145,900	-	14,042	98,000	29,912	-	15,000	-	-	312,854
	1. Topographic Base Mapping	-	-	-	-	138,900	-	14,042	52,500	29,912	-	15,000	-	-	250,354
	1.1 Large Scale Mapping 1:4000	-	-	-	-	13,530	-	-	-	-	-	-	-	-	13,530
	1.2 Updating of Large-Scale Topographic Maps @ scale 1:10,000	-	-	-	-	60,800	-	3,067	-	29,912	-	-	-	-	93,779
	1.3 Medium and Small Scale Mapping	-	-	-	-	9,120	-	-	-	-	-	-	-	-	9,120
	1.4 Administrative Mapping	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5 Updating of Philippine Gazetteer	-	-	-	-	30,342	-	-	-	-	-	-	-	-	30,342
	1.6 Reproduction of maps (no. of maps and nautical charts printed)	-	-	-	-	11,303	-	10,375	-	-	-	-	-	-	21,678
	Enhancement of the Nationwide Digital Elevation Model (DEM) Through IFSAR Technology	-	-	-	-	13,805	-	600	52,500	-	-	15,000	-	-	81,905
	2. Modernisation of the PQRS	10,000	-	-	-	7,000	-	-	45,500	-	-	-	-	-	62,500
103003010300000	3. Resource Assessment and Mapping	-	1,100	-	227	57,890	-	30,562	13,768	6,672	-	-	-	-	110,219
	1. Coastal Resource Mapping and Assessment	-	1,100	-	-	8,978	-	2,899	2,100	-	-	-	-	-	15,077
	2. Forestland Evaluation and Mapping	-	-	-	-	8,314	-	1,621	9,008	-	-	-	-	-	18,943
	3. Land Cover Mapping	-	-	-	-	6,768	-	1,621	-	-	-	-	-	-	8,389
	4. ENR Data Integration for Mapping of Existing Land Uses	-	-	-	-	5,769	-	1,621	1,820	-	-	-	-	-	9,210
	5. Enhancing Earthquake Resilience Through Advanced Mapping of Safe Open Spaces and Critical Lifelines Facilities in GMMMA and other High Risk Areas in the Philippines	-	-	-	227	7,661	-	-	840	572	-	-	-	-	9,300
	6. Cloud-Powered Resource Assessment and Mapping Information System (CPRAMIS)	-	-	-	-	20,400	-	22,800	-	6,100	-	-	-	-	49,300
103003010400000	4. Geospatial Information Management	-	-	-	-	106,760	-	1,104	-	505	-	-	-	-	108,369
	1. Geospatial System Development	-	-	-	-	12,900	-	-	-	-	-	-	-	-	12,900
	2. Geospatial Database Management	-	-	-	-	9,000	-	1,104	-	-	-	-	-	-	10,104
	3. Geospatial Information Services	-	-	-	-	7,519	-	-	-	-	-	-	-	-	7,519
	4. Geospatial Information and Communication Technology	-	-	-	-	77,341	-	-	-	505	-	-	-	-	77,846
	SUB-TOTAL (OPERATIONS)	10,000	1,100	-	227	370,305	10,000	56,628	699,268	190,271	91,100	27,660	-	-	1,456,559
	TOTAL	10,000	1,100	-	227	377,366	10,000	57,745	699,268	206,547	97,420	37,034	-	-	1,496,707
	Locally Funded project:														
	GRAND TOTAL (TIER 1&2)	10,000	1,100	-	227	377,366	10,000	57,745	699,268	206,547	97,420	37,034	-	-	1,496,707

Prepared by:  GRACE A. TOLENTINO Budget Officer

Certified Correct:  KENIA R. ANDRES Planning Officer

Approved by:  LORENZO W. FERNANDEZ OIC-Head Accounting Section

Approved by:  Sec PETE N. MANGCO, Ph.D. CESO I Head of Office / Agency

Date: _____ Day/Month/Year

**CAPITAL OUTLAY
DETAILED BREAKDOWN- MACHINERY AND EQUIPMENT OUTLAY
CY-2027**

PARTICULARS	END-USER	UNIT COST	QTY	TOTAL AMOUNT (Php'000)	PROPERTY, PLANT AND EQUIPMENT OUTLAY														JUSTIFICATION		
					BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT										TRANSPORTATION EQUIPMENT			FURNITURE, FIXTURES & BOATS	
					Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Military, Police & Security Equip.	Printing	Technical & Scientific	ICT Software	Other Mech & Equip.	Motor Vehicle	Watercrafts	Furniture & Fixtures		Boats	
II . Operations																					
1. Hydrographic and Oceanographic Survey and Nautical Charting				6,200	-	-	-	-	-	-	-	-	-	-	-	6,200	-	-	-		
1. Hydrographic Survey				6,200	-	-	-	-	-	-	-	-	-	-	-	6,200	-	-	-		
c. Ports, Harbors and Littoral Areas																					
Supply and Delivery of Motor Vehicle	SSD	6200	1	6,200												6,200					
4. Geospatial Information Management				13,441	-	-	-	-	13,441	-	-	-	-	-	-	-	-	-	-		
1. Geospatial System Development																					
2. Geospatial Database Management				3,999	-	-	-	-	3,999	-	-	-	-	-	-	-	-	-	-		
Computer Desktop High-End	GDMD	387	4	1,548					1,548										Replacement of defective unit		
Computer Laptop High-End	GDMD	329	3	988					988										Remote access of database servers, continuous database maintenance, and for agency data backup		
Computer Laptop-mid level	SSB	128	10	1,276					1,276										Application development source code back-up		
Biometric Time and Attendance and Access Control Terminal	SSB	62	3	187					187												
3. Geospatial Information Services																					
4. Geospatial Information and Communication Technology				9,442	-	-	-	-	9,442	-	-	-	-	-	-	-	-	-	-		
Computer Server - high end	SSD	4,787	1	4,787					4,787												
Smart TV	SSD	151	1	151					151												
GNSS Receiver, Survey Grade with Processing Software 1 Set (Rover & Reference System)	SSD	4,504	1	4,504					4,504												
PROPOSED CAPITAL OUTLAY-FY2027 (TIER1)				19,641	-	-	-	-	13,441	-	-	-	-	-	-	6,200	-	-	-		

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**CAPITAL OUTLAY
DETAILED BREAKDOWN- MACHINERY AND EQUIPMENT OUTLAY
CY-2027**

PARTICULARS	END-USER	UNIT COST	QTY	TOTAL AMOUNT (P/p/000)	PROPERTY, PLANT AND EQUIPMENT OUTLAY													JUSTIFICATION		
					BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT							TRANSPORTATION EQUIPMENT		FURNITURE, FIXTURES & BOOKS				
					Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Military, Police & Security Equip.	Printing	Technical & Scientific	ICT Software	Other Mach & Equip.	Motor Vehicles	Watercrafts		Furniture & Fixtures	Books
Geospatial Data Processing and Analysis Software License		12,480	1	12,480																
Operating System for Server		128	8	1,008					1,008											
Medium and Small Scale Mapping				9,120					9,120											
Computer Desktop-high end		387	4	1,548					1,548											A number of desktop computers in the division are over ten years old and have exceeded their service life, leading to degraded performance, with some units already failing. Replacing these machines is necessary to restore operational efficiency, ensure reliability and security, and improve cost-effectiveness and overall productivity in map production.
Computer Laptop-high end		325	4	1,300					1,300											The procurement of laptops is necessary to support fieldwork, participation in internal and external meetings and workshops, and remote work-from-home arrangements. These devices will ensure continuity of operations, improve productivity, and enable real-time access to data and applications across different work environments, thereby enhancing efficiency and responsiveness in the performance of official duties.
Computer Server - high end		4,787	1	4,787					4,787											The server will support the Topographic Map Data Management System, an information system designed as a central platform for managing all datasets related to topographic maps. Serving as a central hub, it addresses key challenges in data management, accessibility, and data integrity. The system will enable efficient access and timely updates, ensure the integrity of data, and greatly minimize the risk of data loss.
Network-attached Storage, 72 TB, 12 bay		1,073	1	1,073					1,073											A critical infrastructure upgrade to ensure efficient, secure, and available storage of geospatial and geospatial data. It directly supports the continuous improvement of the Topographic Map Data Management System, enhances operational efficiency, and safeguards national geospatial information assets.
SSD Drive for Server (12TB)		108	1	108					108											An expanded backup layer that delivers stronger data redundancy, ensuring improved protection against data loss, system failures, and data corruption. It enhances disaster recovery capabilities and strengthens system uptime resilience, enabling quicker recovery during unexpected disruptions. The solution also accelerates backup creation and data restoration for critical systems and large datasets, while providing scalable storage capacity to support continuous and future data growth requirements.
Tablet		76	4	304					304											Tablets are essential to support the efficient, accurate, and timely conduct of field validation activities for medium-scale topographic mapping using the Field Maps application. Traditional paper-based validation and manual data encoding processes are time-consuming, prone to transcription errors, and delay the integration of field updates into geospatial databases.
Updating of Philippine Gazetteer				30,342					30,342											
Computer Desktop-high end		387	4	1,548					1,548											A number of desktop computers in the division are over ten years old and have exceeded their service life, leading to degraded performance, with some units already failing. Replacing these machines is necessary to restore operational efficiency, ensure reliability and security, and improve cost-effectiveness and overall productivity in map production.
Computer Laptop-high end		325	4	1,300					1,300											The procurement of laptops is necessary to support fieldwork, participation in internal and external meetings and workshops, and remote work-from-home arrangements. These devices will ensure continuity of operations, improve productivity, and enable real-time access to data and applications across different work environments, thereby enhancing efficiency and responsiveness in the performance of official duties.
Computer Server - high end		4,787	2	9,574					9,574											The server will be used for the Philippine Gazetteer Information System, a comprehensive digital platform designed for the collection, processing, management, and dissemination of authoritative geographic names across the Philippine archipelago. Ultimately, this initiative aims to develop a digital gazetteer that enables the public to easily access standardized geographic toponym with just a click.
Computer Server - mid level		1,064	1	1,064					1,064											The server will be used for the Philippine Gazetteer Information System, a comprehensive digital platform designed for the collection, processing, management, and dissemination of authoritative geographic names across the Philippine archipelago. Ultimately, this initiative aims to develop a digital gazetteer that enables the public to easily access standardized geographic toponym with just a click.
Data Center Backup Storage		6,321	1	6,321					6,321											The procurement of Data Center Backup Storage is a critical investment to safeguard the Philippine Gazetteer Project's data assets, ensure operational resilience, and support the long-term sustainability of national geospatial information services.
Rugged Tablet		426	20	8,520					8,520											The procurement of rugged tablets is necessary to support efficient and accurate field data collection for the updating of the Philippine Gazetteer. Rugged tablets, designed for durability under harsh field conditions, will enable real-time data capture, geotagging, and direct integration with GIS applications, thereby improving data accuracy, consistency, and processing efficiency while reducing the need for post-field data encoding. This will streamline the overall workflow and ensure a more timely and reliable updating of the Gazetteer, in line with the agency's objective of modernizing geospatial data collection and management systems.
UPS, 20kva; 3P, 220VAC/P, 20 mins		2,015	1	2,015					2,015											The UPS will provide immediate power backup during outages and voltage fluctuations, allowing safe system operation or controlled shutdown. It also protects server equipment from power surges and ensures compliance with ICT resiliency and business continuity standards of the Philippine Gazetteer server.
Reproduction of maps				21,678					11,803											
Computer Desktop-high end		387	8	2,322					2,322											
Computer Laptop-high end		325	3	975					975											
Computer Server - high end		4,787	1	4,787					4,787											
Network-attached Storage, 72 TB, 12 bay		1,073	3	3,219					3,219											
Printer, Large-Format Print-On-Demand Color Multifunction with Pro Stacker		10,375	1	10,375																
Enhancement of the Nationwide Digital Elevation Model (DEM) Through IPBAR Technology				61,905					13,805											
Survey Vehicle		5,000	3	15,000																
GNSS Receiver (Survey Grade)		2,500	6	15,000																
Gravimeter (Relative)		15,000	2	30,000																
Digital Level		1,500	5	7,500																
High-end Server		3,500	3	10,500																
Network Attached Storage (72 TB)		505	1	505					505											
Desktop Computer (High-End)		240	10	2,400					2,400											
Computer Laptop (High-End)		200	2	400					400											
Printer		300	2	600																
Modernization of the PGRS				62,500	10,000				7,000											
GNSS Reference Receivers		3,500	5	17,500																The Philippine Active Geodetic Network (PAGeNet) is the country's first operational network of continuously operating GNSS reference stations. PAGeNet has been providing highly precise GNSS reference data to local and international stakeholders since 2008 and now consists of 64 active geodetic stations nationwide. A large number of these stations are equipped with aging and obsolete GNSS equipment, which result to frequent station downtime and data quality issues. Their deterioration threatens the reliability and availability of PAGeNet's

**CAPITAL OUTLAY
DETAILED BREAKDOWN- MACHINERY AND EQUIPMENT OUTLAY
CY-2027**

PARTICULARS	END-USER	UNIT COST	QTY	TOTAL AMOUNT (Php'000)	PROPERTY, PLANT AND EQUIPMENT OUTLAY														JUSTIFICATION	
					BUILDING & OTHER STRUCTURE				MACHINERY & EQUIPMENT							TRANSPORTATION EQUIPMENT		FURNITURE, FIXTURES & BOOKS		
					Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Military, Police & Security Equip.	Printing	Technical & Scientific	ICT Software	Other Mach & Equipt.	Motor Vehicles	Watercrafts	Furniture & Fixtures		Books
360 Camera		60	10	600					600										To be used in the documentation activities on survey of UPP areas	
SSD Drive for server (12TB)		108	5	540					540										To augment existing and for the enhancement of the database management and storage system of all LC data	
Portable projector		111	2	222					222										To replace old/unserviceable units	
Scanner, automatic document feeder (ADF)		61	2	122					122										To replace old/unserviceable units	
Plotter (44in)		1,621	1	1,621								1,621							To augment with the existing plotter for printing proposed LC maps	
2.2. Updating and Replotting of Land Classification Maps				6,830					6,830											
Computer Desktop-high end, for GIS processing and application development		387	10	3,870					3,870										For efficient processing of large and complex spatial datasets to be used in the replotting and updating of LC maps.	
Computer Laptop-high end, for GIS processing and application development		325	5	1,625					1,625										To augment existing units to be used in the capacity building activities for the updating and replotting of LC maps.	
SSD Drive for Server (12TB)		108	9	972					972										To augment existing and for the enhancement of the database management and storage system of all LC data.	
Synology rack module with 12 bay rack station		363	1	363					363										To augment existing and for the enhancement of the database management and storage system of all LC data.	
3. Land Cover Mapping				8,389					6,768			1,621								
Computer Desktop-high end, for GIS and RS processing and application development		387	10	3,869					3,869										For the classification of land cover maps using AI/Machine Learning Algorithms, and processing of other large datasets related to land resources.	
Computer Laptop-high end, for GIS processing and application development		325	8	2,597					2,597										Improve computation capability for efficient data processing, visualization, and AI-driven interpretation	
360 Camera		60	5	302					302										For gathering of quality training samples needed in AI/Machine Learning Algorithms through ground truthing and field data gathering using Mobile Apps (e.g. ArcGIS Field Maps)	
Plotter (44 in)		1,621	1	1,621								1,621							To augment with the existing plotter for printing large scale format of Land Cover Maps.	
4. ENR Data Integration for Mapping of Existing Land Uses				9,210					5,769			1,621	1,820							
Computer Desktop-high end for GIS processing and application development		387	5	1,935					1,935										The current hardware is outdated, which slows down performance, causing delays and inefficiencies in processing and analysis tasks. Replacing these obsolete systems with upgraded computers will substantially improve the processing power and speed of geospatial data analysis and can handle larger datasets and data processing needs. Documented in the endorsed ISSP.	
Computer Laptop-high end for GIS processing and application development		325	8	2,600					2,600										The laptops are critical and indispensable for field operations; they provide essential support during the field consultation and validation activities. It facilitates the consultation and training activities, especially in accessing online data, integration, and analysis using GIS and remote sensing applications. Documented in the endorsed ISSP.	
Computer Laptop mid level		123	2	246					246										The laptops are critical and indispensable for field operations; they provide essential support during the field consultation and validation activities. It facilitates the consultation and training activities, especially in accessing online data, integration, and analysis using GIS and remote sensing applications. Documented in the endorsed ISSP.	
Tablet	Geospatial Integration Division	76	5	380					380										Very essential in the field validation activities via mobile applications for easy integration with other tools and online platforms. This enables real-time updates, data analysis, and field reporting of field survey teams.	
Scanner, automatic document feeder (ADF)		60	2	120					120											
Plotter 44 in		1,621	1	1,621								1,621							To replace the defective plotter for printing large scale format of ENR Data Integration for Mapping of Existing Land Uses.	
Unmanned Aerial Vehicle (UAV) for GIS Mapping		420	3	1,260															Drones, or unmanned aerial systems, are crucial to the field validation of existing land uses. It will produce more precise data measurements and capture high-resolution, real-time imagery. Drones are a very cost-effective way to cover broad areas at high resolution, and their use is vital for validating sites that are inaccessible and closed spaces. This aligns with our strategic plan to integrate innovation solutions by enhancing both the accuracy and quality of map outputs. Necessary in the research and development of the division.	
Drone Image Processing Software		560	1	560									560							
360 Camera		61	8	488					488											
5. Enhancing Earthquake Resilience Through Advanced Mapping of Safe Open Spaces and Critical Lifelines Facilities in GMMMA and other High Risk Areas in the Philippines				9,300					227	7,661			840	572						
Computer Desktop-high end, for GIS processing and application development		387	8	3,096					3,096										The current hardware is outdated, which slows down performance, causing delays and inefficiencies in processing and analysis tasks. Replacing these obsolete systems with upgraded computers will substantially improve the processing power and speed of geospatial data analysis and can handle larger datasets and data processing needs. These high-end computers are essential for running AI/Machine Learning algorithms, as well as for efficiently processing and analyzing large volumes of geospatial data.	

**CAPITAL OUTLAY
DETAILED BREAKDOWN- MACHINERY AND EQUIPMENT OUTLAY
CY-2027**

PARTICULARS	END-USER	UNIT COST	QTY	TOTAL AMOUNT (Php'000)	PROPERTY, PLANT AND EQUIPMENT OUTLAY													JUSTIFICATION	
					BUILDING & OTHER STRUCTURE		MACHINERY & EQUIPMENT							TRANSPORTATION EQUIPMENT		FURNITURE, FIXTURES & BOOKS			
					Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Military, Police & Security Equip.	Printing	Technical & Scientific	ICT Software	Other Mach & Equip.	Motor Vehicles	Watercrafts		Furniture & Fixtures
Computer Laptop High-end for GIS processing and application development		325	9	2,925					2,925										The laptops are vital for field operations, providing necessary support during consultation and validation activities. They enable efficient conduct of consultations and training, particularly for accessing online data and performing data integration and analysis using GIS and remote sensing applications.
iPad Mini for mapping apps and handling large datasets	GID	82	20	1,640					1,640										The iPad Mini is an effective tool for field mapping and survey activities due to its portability, functionality, and efficiency. Its compact size allows easy handling during site validations, while the high-resolution display ensures clear visualization of maps and spatial data. The device supports mapping and GIS applications, enabling real-time data collection, annotation, and geotagging.
Unmanned Aerial Vehicle (UAV) for GIS Mapping		420	2	840															Drones, or unmanned aerial systems, are crucial to the field validation in mapping of the safe open space. It will produce more precise data measurements and capture high-resolution, real-time imagery. Drones are a very cost-effective way to cover broad areas at high resolution, and their use is vital for validating sites that are inaccessible and closed spaces.
Smart TV 75"		167	1	167				167											
Drone Image Processing Software		572	1	572									572						Drone image processing software is vital for converting raw drone imagery into accurate, actionable information. It enables the creation of high-resolution imagery that supports the analysis and interpretation of the geospatial datasets.
Scanner, automatic document feeder (ADF)		60	1	60				60											
6. Cloud-Powered Resource Assessment and Mapping Information System (CPRAMIS)				49,300					20,400			22,800		6,100					
360 Camera		60	5	300					300										To enhance field survey and validation through recordings of immersive video and photos.
Computer Desktop-high end, for GIS processing and application development		387	5	1,935					1,935										The current hardware is outdated, which slows down performance, causing delays and inefficiencies in processing and analysis tasks. Replacing these obsolete systems with upgraded computers will substantially improve the processing power and speed of geospatial data analysis and can handle larger datasets and data processing needs.
Computer Laptop-high end, for GIS processing and application development		325	5	1,625					1,625										Documented in the endorsed ISSP. The laptops are critical and indispensable for field operations; they provide essential support during the field consultation and validation activities. It facilitates the consultation and training activities, especially in accessing online data.
Computer Server - high end		4,978	2	9,956					9,956										For centralized and efficient data bank/storage of ENR Maps and other related project outputs.
Interactive Smart Board 75"		657	1	657					657										Needed in the conduct of training and capacity building.
Network-attached Storage, 72 TB, 12 bay		1,073	5	5,365					5,365										For file storage and back-up of ENR Maps and other related project outputs.
Tablet		76	5	380					380										For gathering of quality training samples needed in AI/Machine Learning Algorithms through ground truthing and field data gathering using Mobile Apps
Underwater Camera		59	3	177					177										For underwater mapping and assessment
Plotter (36 in)		1,010	2	2,020															To augment with the existing plotter for printing large scale format of ENR Maps.
Printer, Large-Format Print-On-Demand Color Multifunction with Pro Stack		10,375	2	20,750															For ultra-fax printing and handling large volumes efficiently.
Drone Image Processing Software		1,436	4	5,744										5,744					For processing of images captures through the use of drones.
Relational Database Management Software (RDBMS)		67	5	335										335					For organization of data and enabling efficient querying, updating and storage.
1. Coastal Resource Mapping and Assessment																			
2. Forestland Evaluation and Mapping																			
3. Land Cover Mapping																			
4. ENR Data Integration for Mapping of Existing Land Uses																			
4. Geospatial Information Management				94,928					93,819			1,104		505					
1. Geospatial System Development				12,900					12,900										
Computer Desktop High-End	GSDD	387	8	3,096					3,096										Replacement of defective units. High-end specifications for HW are required to support the requirements of the SW versions, remote access of application servers, and development of information systems supporting the agency's
Computer Laptop High-End	GSDD	325	8	2,597					2,597										Replacement units to anticipate breakdown of old servers to ensure continuous system operations.
Computer Server - high end	GSDD	4,978	1	4,978					4,978										To run applications independently (Android/Windows-based), to integrate with AI systems, multiple dashboards, and cloud tools, and to enable data visualization and AI-assisted decision support
Interactive Kiosk 49"	GSDD	498	1	498					498										To maximize the capacity of our storage servers to easily adapt to the agency's increasing database requirement. Replacement units to anticipate breakdown of old servers to ensure continuous system operations.
Interactive Smart Board 75"	GSDD	657	1	657					657										
Network-attached Storage, 72 TB, 12 bay	GSDD	1,073	1	1,073					1,073										
2. Geospatial Database Management				6,105					5,001			1,104							
Computer Desktop High-End	GDMD	387	5	1,935					1,935										Replacement of defective unit

**CAPITAL OUTLAY
DETAILED BREAKDOWN- MACHINERY AND EQUIPMENT OUTLAY
CY-2027**


PARTICULARS	END-USER	UNIT COST	QTY	TOTAL AMOUNT (Php'000)	PROPERTY, PLANT AND EQUIPMENT OUTLAY													JUSTIFICATION		
					BUILDING & OTHER STRUCTURE					MACHINERY & EQUIPMENT						TRANSPORTATION EQUIPMENT			FURNITURE, FIXTURES & BOOKS	
					Building	Other Structure	Machinery	Office Equipment	ICT Equipment	Communication	Military, Police & Security Equipmt.	Printing	Technical & Scientific	ICT Software	Other Mach & Equipmt.	Motor Vehicles	Watercrafts		Furniture & Fixtures	Books
Computer Laptop High-End	GDMD	325	2	649					649										Remote access of database servers, continuous database maintenance, and for agency data backup	
Hard disk (16TB) for NAS	GDMD	77	2	153					153										Application development source code back-up	
Interactive Smart Board 65"	GDMD	556	1	556					556											
Network-attached Storage, 72 TB, 12 bay		1,073	1	1,073					1,073										To maximize the capacity of our storage servers to easily adapt to the agency's increasing database requirement. Replacement units to anticipate breakdown of old servers to ensure continuous system operations.	
Rugged Tablet	GDMD	426	1	426					426											
SSD Drive for Server (7TB)	GDMD	208	1	208					208											
Multifunction Printer Mid-level	GDMD	1,104	1	1,104																
3. Geospatial Information Services				7,519					7,519											
Computer Desktop High-End	GISD	387	5	1,935					1,935										Replacement of defective units	
Computer Laptop High-End		325	5	1,623					1,623										Remote access and monitoring of servers and other ICT resources (network equipment), agency backup and support to agency digitalization and operation.	
Computer Laptop Mid-level	GISD/GTC	123	5	614					614										Photo and video documentation of agency events	
360 Camera	GISD	60	1	60					60										CEPA and agency events	
Handheld camcorder	GISD	151	1	151					151										Client satisfaction survey use	
Hard disk (16TB) for NAS	GISD	77	2	153					153										Printing of print-on-demand outputs in NOSS	
Interactive Smart Board 65"		555	1	555					555										CEPA and agency events	
Network-attached Storage, 72 TB, 12 bay		1,073	2	2,147					2,147										Photo and video documentation of agency events	
Portable Projector		111	2	221					221										CEPA and agency events	
Scanner, automatic document feeder (ADF)		60	1	60					60										Replacement of defective units	
4. Geospatial Information and Communication Technology				68,404					67,899					505						
Computer Desktop High-End	GICTD/ NAMRIA	387	6	2,322					2,322										Replacement of defective units	
Computer Desktop - Mid Level	GICTD	173	2	346					346										Replacement of defective units	
Computer Laptop High-End	GICTD/ NAMRIA	325	6	1,948					1,948										Replacement of defective units	
Computer Server High-End	NAMRIA/ NAMRIA	4,978	7	34,849					34,849										Replacement units to anticipate breakdown of old servers to ensure continuous system operations.	
Computer Server - Mid level	NAMRIA	1,064	4	4,254					4,254										Replacement units to anticipate breakdown of old servers to ensure continuous system operations.	
Network Switch, Managed (48 ports)	NAMRIA	1,476	11	16,233					16,233										Replacement units to anticipate breakdown of old servers to ensure continuous system operations.	
Network Attached Storage, 72TB, 12 bay	NAMRIA	1,073	7	7,514					7,514										To maximize the capacity of our storage servers to easily adapt to the agency's increasing database requirement. Replacement units to anticipate breakdown of old servers to ensure continuous system operations.	
Operating System for Server	NAMRIA	126	4	505										505					Upgrading of Server Operating System	
Smart TV 55"	NAMRIA	56	1	56					56										For network and cybersecurity Monitoring	
Tablet	GICTD	76	5	379					379										For use in conducting validation of ICT Equipment	
PROPOSED CAPITAL OUTLAY-FY2027 (TIER2)				1,477,066	10,000	1,100		227	363,925	10,000		57,745	699,268	206,547	97,420	20,834				

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