



Republic of the Philippines
Department of Education
Region II – Cagayan Valley
SCHOOLS DIVISION OF NUEVA VIZCAYA

12 October 2026

DIVISION MEMORANDUM
No. 401, s. 2026

**LIST OF TOP 5 FINALISTS FOR THE DIVISION SCIENCE,
TECHNOLOGY, & MATHEMATICS FAIR – SCIENCE CONGRESS
CUM KAMPANYAMAN 2026**

To: Assistant Schools Division Superintendent
Chief Education Supervisors
Education Program Supervisors
Public Schools District Supervisors/District In-Charge
Public & Private Secondary & Integrated School Heads
All Others Concerned

1. The Schools Division Office of Nueva Vizcaya, through the Curriculum Implementation Division (CID) in partnership with Oceana Gold Philippines Inc., informs all concerned of the list of finalists for the **2026 Science, Technology, & Mathematics Fair- Science Congress cum KampanyAMAN** on the following dates and venues;

Level / Date	Venue	Participants
Secondary Level		
October 23, 2026 2026 Division Science, Technology & Mathematics Science Congress	Uddiawan National Agro-Industrial School Solano, Nueva Vizcaya	TUKLAS Top 5 Finalists per Category Scie-LR Developers & Illustrators Coaches, PMTs/TWGs
October 24, 2026 KampanyAMAN – sponsored by Oceana Gold Phils., Inc.	Highlander Hotel Solano, Nueva Vizcaya	TUKLAS Top 5 Finalists per Category Coaches, Select PMTs

2. Enclosed is the **List of the TUKLAS Top 5 Finalists per Category and List of Participating Schools in the KampanyAMAN**. All finalists shall strictly adhere to the mechanics, guidelines, and other provisions governing the conduct of the **Science Congress**, as stipulated in the issued Division Memorandum.

3. SCIE-LR participants are advised to bring three (3) printed copies of their comics-based learning resource innovation and submit these to the Registration Committee upon arrival at the contest venue.



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Department of Education

Region II – Cagayan Valley
SCHOOLS DIVISION OF NUEVA VIZCAYA

4. **KampanYAMAN, “Powering Progress: The Journey from Picks to Pixels,”** is an experiential learning initiative for science enthusiasts, to be conducted in partnership with **Oceana Gold Philippines, Inc.** It engages learners in exploring environmental stewardship, responsible resource development, and the role of science and technology through immersive exhibits, interactive displays, and student-led discussions. Through this journey of discovery, participants will gain meaningful insights and a deeper understanding of earth sciences, environmental responsibility, and the continuing evolution of mining and technology.

5. Participation of learners in these activities shall be **voluntary**. All participating learners shall be secure and submit a duly accomplished Parental Consent Form to the School Head before their participation. Secure such consent before approving and issuing the learners’ Authority to Travel, in accordance with existing policies and guidelines.

6. To ensure the uninterrupted delivery of school operations and services, all participating school heads are directed to officially designate an Officer-in-Charge (OIC) for the duration of their attendance. Teachers are requested to prepare and submit their instructional plan prior to the approval of their respective travel orders. All school activities and urgent concerns shall be properly coordinated and appropriately managed to ensure the continuous delivery of essential school services.

7. For activity days that fall on Saturday, the participants shall be entitled to Compensatory Overtime Credit (COC) or Compensatory Time-Off per CSC and DBM Joint Circular No. 2, s. 2004, while teacher-participants are entitled to Vacation Service Credits per DepEd Order No. 53, s. 2003.

8. Meals and snacks of all participants during the two-day activity shall be provided by OceanaGold Philippines, Inc. Travel expenses and other incidental expenses related to the participation in and conduct of the activity, including the procurement of materials needed by participants in the preparation of their research outputs and other necessary expenses relative to the conduct of the fair, shall be charged against the school MOOE and/or other available local funds, subject to the availability of funds and the usual accounting and auditing rules and regulations.

9. Immediate dissemination of and compliance with the provisions of this memorandum are directed.



ORLANDO E. MANUEL PhD, CESO V
Schools Division Superintendent



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Bayombong, Nueva Vizcaya

**2026 SCIENCE, TECHNOLOGY & MATHEMATICS FAIR
TOP 5 FINALISTS**

October 23, 2026 @ Uddiawan National Agro-Industrial School

INNOVATION EXPO – INDIVIDUAL

Code	Title	School	District
IE-I-01	NAVISENSE: A Smart Navigation and Safety Device for Blind Individuals	Carolotan HS	Dupax Del Sur
IE-I-02	Agrimatch NV: Adaptive Geospatial and Resilient Intelligence for Multi-Agent Tracking in Crop Hubs Across Nueva Vizcaya	NVGCHS	Bayombong I
IE-I-03	Automated Aquatic Debris Collection and Segregation System Using Object Recognition	Solano High School	Solano II
IE-I-04	YUFACE: Attendance Monitoring System Using Face-Recognition Technology	Sta. Fe NHS	Sta. Fe
IE-I-05	Fabrication and Performance Evaluation of Dual-Fuel (Wood and Waste Oil) Rocket Stove	Uddiawan NAIS	Solano II



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INNOVATION EXPO – TEAM

Code	Title	School	District
IE-T-01	Waste to Strength: Development and Performance evaluation of Styrobricks from Recycled Expanded polystyrene and Plastic Waste	Aritao NHS	Aritao 1
IE-T-02	COCOFILTER: Enhancing Household Greywater Quality Through Coconut Fiber-Enhanced Natural Filtration	Lamo NHS	Dupax del Norte 1
IE-T-03	From Waste to Wrap: Development and Characterization of an Active Bio-Based Packaging Film from Allium Sativum (Garlic) Skin Extract and Cornstarch for Sustainable Preservation of Perishable Post-Harvest Crops	NVGCHS	Bayombong 1
IE-T-04	WATCH: An AI-Powered Intelligent Classroom Energy Conservation and Alert System	Sta. Fe NHS	Santa Fe
IE-T-05	SENTRYSM: Smart Energy and Network Technology for Residential Yield with System Monitoring	Solano HS	Solano II



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LIFE SCIENCE – INDIVIDUAL

Code	Title	School	District
LS-I-01	Effects of Red, Blue, and White LED Light Spectra on the Dry Biomass of Freshwater Algae Collected from a Local Fishpond in Bintawan, Villaverde, Nueva Vizcaya	Bintawan NHS	Villaverde
LS-I-02	From Invasive Weed to Vector Control: Unveiling the Larvicidal Activity, Cytotoxicity, Morphological, and Behavioral Effects of Hagonoy (<i>Chromolaena odorata</i>) Extract on <i>Aedes aegypti</i> Larvae	Dupax Del Sur NHS	Dupax Del Sur
LS-I-03	In Vitro Antibacterial, Antioxidant, and Cytotoxic Potentials of Bio-fabricated Ag-ZnO Bimetallic Nanoparticles from <i>Chromolaena Odorata</i> (Hagonoy) Leaf	NVGCHS	Bayombong I
LS-I-04	Growth Performance of Pechay (<i>Brassica rapa L.</i>) in Hydroponics with Varying Concentrations of B-SWEET Organic Nutrient Solution	Paniki HS	Bagabag I
LS-I-05	From Herbal Remedy to Developmental Risk: Assessing the Embryonic Risk Potential of <i>Peperomia pellucida</i> (Pancit-pancitan) Extract in Zebrafish	SMU-JHS & SHS	Bayombong I



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LIFE SCIENCE – TEAM

Code	Title	School	District
LS-T-01	Eco-Friendly Synthesis of Silver Nanoparticles Using Chromolaena odorata Aqueous Extract and Their Antimicrobial Activity and Efficacy Against Coccidohystrix insolita	Murong NHS	Bagabag I
LS-T-02	Project SATSUMA 2.0: Secondary Metabolites Analysis, Cytotoxicity Testing and Antifungal Screening of Citrus reticulata (SATSUMA) Peels Extract Utilized as Mitigation Application on Post-Harvest Solanum lycopersicum (TOMATO) Against Identified Fungal Species Using Morphological Image Analysis Feature of Fungiscan	NVGCHS	Bayombong I
LS-T-03	Concentration-Dependent Potential Allelopathic Effects of Guava (Psidium guavaja), Aratiles (Muntingia calabura) and Mango (Mangifera indica) Leaf Extracts on the Germination and Early Seedling Growth of Mung Bean (<i>Vigna radiata</i>)	Sta. Fe NHS	Santa Fe
LS-T-04	Green Synthesis of Silver Nanoparticles Using Wood Vinegar Extract and Their Effects on the Germination and Early Growth of Bioprimered Palay (<i>Oryza sativa</i>) Seeds	Paniki HS	Bagabag I
LS-T-05	Antitoxic efficacy of Santan (Ixora Coccinea) Flower Tea and Ethanolic Extract Using Successive Alleys Test	SMU JHS & SHS	Bayombong I



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PHYSICAL SCIENCE – INDIVIDUAL

Code	Title	School	District
PS-I-01	Green Carry: Optimizing Dragon Fruit (<i>Hylocereus undatus</i>) Peel-based Bioplastic Through Pectin Incorporation	Alfonso Castaneda National High School	Alfonso Castaneda
PS-I-02	UV-Assisted Removal of Malathion from Contaminated Water Using Saba Banana Peel (<i>Musa Acuminata</i> * <i>balbisiana</i>) Biochar and suahe shrimp (<i>Metapenaeus ensis</i>) Shell-Derived Hydroxyapatite Composite	Bambang National High School	Bambang 1
PS-I-03	Development of Non-Coded Automated Hand Sanitizer Dispenser	Diadi National High School	Diadi
PS-I-04	SNAPPABLESPECS: Detachable, Radiation Shielding, and Graded Eyeglass Systems	Lamo National High School	Dupax del Norte I
PS-I-05	PHOTOMOSS: Photosynthetic Optimization and Tracking of Electrical Output from Moss-Based Photovoltaics: A Circular <i>Bryum caespeticium</i> (<i>Bryum</i> Moss) Module with real-time Monitoring	NVGCHS	Bayombong 1



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PHYSICAL SCIENCE – TEAM

Code	Title	School	District
PS-T-01	HYDROFLAME: A Solar-powered Oxyhydrogen Cooking System for a Sustainable, Eco-Friendly Cooking	Bagabag NHS	Bagabag I
PS-T-02	Modification of the AC-Powered Floor Scrub with Integrated Fluid Wax Dispensing System	Diadi NHS	Diadi
PS-T-03	VISION: Visual Indicator System for Identifying Spoilage using an Anthocyanin Curcumin Dual-Pigment Colorimetric Biofilm in <i>Oreochromis niloticus</i> (Tilapia) inoculated with <i>Pseudomonas Fluorescens</i>	NVGCHS	Bayombong I
PS-T-04	Comparative Preservative Efficacy of <i>Pandanus amaryllifolius</i> (Pandanus) Extract Formulation on the Shelf-Life of Tinapa (Smoked Fish)	SMU JHS & SHS	Bayombong I
PS-T-05	Development of a Solar Charger Station for Emergency Power Provision	Solano HS	Solano II



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ROBOTICS AND INTELLIGENT MACHINES – INDIVIDUAL

Code	Title	School	District
RM-I-01	Development and Construction of PINYABOT: A Harvesting Robot	Bagabag NHS	Bagabag I
RM-I-02	Robo-Kalaykay: Solar-Powered Automated Robotic Rake for Efficient Rice Grain Drying	Bambang NHS	Bambang 1
RM-I-03	HYDROBOT: An Arduino-Based Automated Watering Mobile Robot for Soil-Specific Precision Irrigation	Lamo NHS	Dupax del Norte 1
RM-I-04	Prism (Personalized Robotic Intelligent Screening and Monitoring): Longitudinal Multimodal Quantification of Motor Biomarkers Associated with Neurodegenerative Movement Disorders Using Raspberry Pi 5-Based Social Robot Integrating OpenCV, MediaPipe, and Digital Twin Technology.	NVGCHS	Bayombong I
RM-I-05	Development of harvest-AI: Solar-Powered Offline Device for Corn Disease Detection and Disease Management Recommendations	Solano HS	Solano II



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ROBOTICS AND INTELLIGENT MACHINES – TEAM

Code	Title	School	District
RM-T-01	AMBAG-PATH: Design and Development of a Prototype Robotics System for Landslide Detection with Visual Light Indication and Early Sound Alarming	Ambaguio HS	Ambaguio
RM-T-02	PICK-A-BOOM: A Robot Garbage Collector and Segregator	Bagabag NHS	Bagabag I
RM-T-03	CROPPTECH AGRIBOT: Solar-Charging Robotic Planter for Precision Planting	Lamo NHS	Dupax del Norte I
RM-T-04	ORACLE-MODULAR: (Offline Reconfigurable Adaptive Cooperative Localization and Exploration-Modular): Engineering, Integration, and Validation of a Raspberry Pi-4-Based Multi-Platform Search-and-Rescue Architecture with AI-Assisted Victim Detection, Multi-sensor Fusion, Adaptive Navigation, and Real-Time Responder Decision Support Dashboard	NVGCHS	Bayombong 1
RM-T-05	SYLPHAIRE	SMU JHS & SHS	Bayombong I



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MATHEMATICS AND COMPUTATIONAL SCIENCE – INDIVIDUAL

Code	Title	School	District
MCS-I-01	Data Analysis of Fuel Prices in Shell Bambang, Nueva Vizcaya: Modeling and Forecasting through Time Series Analysis	Bambang NHS	Bambang I
MCSI-02	Mathematical Modeling of Solar Radiation Efficiency in Nueva Vizcaya: A Province-wide Model for Seasonal Optimal Tilt Angles of Stationary Photovoltaic Panels	Lamo NHS	Dupax Del Norte I
MCS-I-03	A GIS-Based Multivariate and Predictive Modeling of Population Dynamics, Vaccination Coverage, and Childbirth in the Philippines.	Murong AFS	Bagabag I
MCS-I-04	Predictive Modeling of Malnutrition Among Junior High School Learners at Nueva Vizcaya General Comprehensive High School Using Mathematical and Computational Methods	NVGCHS	Bayombong I
MCS-I-05	Mathematical Modeling and Biostatistical Regression Analysis of <i>Spathiphyllum wallisii</i> Extract Dynamics: Dose-Response Lethality, Scavenging Kinetics, and Spatial Diffusion	SMU JHS and SHS	Bayombong I
MCS-I-06	Predicting Residential Power Consumption in Luzon Based on Inflation Rate, Electricity Sales and Gross Generation	Solano HS	Solano II



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MATHEMATICS AND COMPUTATIONAL SCIENCE – TEAM

Code	Title	School	District
MCS-T-01	Predicting Daily Classroom Solid Waste Generation: A Multiple Linear Regression Model Based on Student Attendance and Consumption Patterns	Bambang NHS	Bambang I
MCS-T-02	Rooted in Equations: Data-driven Predictive Modeling Framework Approach for Assessing Agricultural Determinants and Forecasting Kinarot Camote (<i>Ipomoea batatas</i>) Production in the Province of Nueva Vizcaya	Lamo NHS	Dupax Del Norte I
MCS-T-03	Mathematical Models of Swine Production in the Philippines	Murong AFS	Bagabag I
MCS-T-04	GINGERCAST: Comparative Mathematical Trend and Seasonal Time-Series Approach to Forecasting Ginger Production in Nueva Vizcaya Toward an Evidence-Based Agricultural Planning Framework	NVGCHS	Bayombong I
MCS-T-05	Comparative Toxicodynamic Modeling and Time-Series Probit Analysis of Calabash (<i>Crescentia cujete</i>) and Gogo Vine (<i>Entada phaseoloides</i>) Stem Bark Extracts as Mosquito Larvicides	SMU JHS & SHS	Bayombong I
MCS-T-06	Forecasting Retail Gasoline Prices in Nueva Vizcaya Based on Crude Oil Prices, Inflation Rate, and World Oil Demand and Supply	Solano HS	Solano II



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PARTICIPANTS IN THE 2026 KampanYAMAN
October 24, 2026 @ Highlander Hotel & Resort, Solano, Nueva Vizcaya

School	Coach	Students	Total
Alfonso Castaneda NHS	1	1	2
Ambaguio HS	1	3	4
Aritao HS	1	5	6
Bagabag NHS	2	13	15
Bambang NHS	2	10	12
Carolotan HS	1	1	2
Diadi NHS	1	5	6
Dupax del Sur NHS	1	7	8
Nueva Vizcaya General Comprehensive HS	3	20	23
Solano HS	3	20	23
Sta Fe NHS	1	5	6
Udiawan NAIS	1	10	11
Lamo NHS	2	15	17
Bintawan NHS	2	15	17
Paniki HS	2	15	17
SMU-JHS & SHS	1	14	15
Murong AFS	1	10	11
Members, TWG/PMT	5		
tal	31	169	200



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