



Republic of the Philippines  
**Department of Education**  
REGION VII - CENTRAL VISAYAS  
DIVISION OF CITY SCHOOLS - TAGBILARAN CITY

**Office of the Schools Division  
Superintendent**

October 22, 2025

DIVISION MEMORANDUM  
No.765, s. 2025

**ENDORSEMENT FOR THE REGIONAL SCIENCE AND TECHNOLOGY FAIR 2025**

To: All Public Elementary and Secondary School Heads  
All Private Elementary and Secondary School Heads  
All Others Concerned

1. This Office, through the Curriculum Implementation Division, would like to endorse the following learners and coaches to participate in the upcoming **Regional Science and Technology Fair 2025 on November 5-7, 2025 at DepEd Ecotech Center, Sudlon Lahug, Cebu City.**

**TUKLAS - JUNIOR AND SENIOR HIGH SCHOOL CATEGORY**

**I-A. PHYSICAL SCIENCE – INDIVIDUAL**

- **Tagbilaran City Science High School**  
SUGARCANE (*Saccharum officinarum*) BAGASSE PAPER BAG USING ANTIPOLLO TREE (*Artocarpus blancoi*) SAP AS WATER-RESISTANT COATING
  - Participant: Ma. Wendeli A. Cabahug
  - Teacher-coach: Anamie T. Galves
- **Dr. Cecilio Putong National High School – SHS**  
MAHOGANY (*SWIETENIA MACROPHYLLA*) BARK FIBERS AS AN ALTERNATIVE SOURCE FOR PAPER BAG INNOVATION
  - Participant: Ronah Mae D. Bañados
  - Teacher-coach: Rachel B. Mende

**I-B. PHYSICAL SCIENCE – TEAM**

- **Tagbilaran City Science High School**  
REMOVAL OF CU (II) IONS BY CARBON QUANTUM DOTS SYNTHESIZED FROM CHICKEN (*Gallus gallus domesticus*) FEATHERS
  - Participants: Lloyd Aaron B. Adaptar, Christian Dominic S. Dacera, Jace Maverick H. Dalmao
  - Teacher-coach: Flordynel Polo



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- **Dr. Cecilio Putong National High School – SHS**  
Point of Zero Charge Determination of Ipil-ipil (*Leucaena leucocephala*) Wood Charcoal
- Participants: Trisha Nicole P. Odarve, Lorence S. Quion, Gioan Patrick A. Calcaben
- Teacher-coach: Rhea L. Subrastas

## II-A. LIFE SCIENCE – INDIVIDUAL

- **Dr. Cecilio Putong National High School – SHS**  
IN VITRO EMBRYOGENESIS INHIBITION ACTIVITY OF ETHANOLIC EXTRACTS OF CROWN OF THORNS (*Acanthaster planci*) SPINES AGAINST STEM BORER (*Scirpophaga innotata*) EGGS
- Participant: Bouena Juliana D. Bernados
- Teacher-coach: Rachel B. Mende
- **Dr. Cecilio Putong National High School – JHS**  
“Toxicity Analysis of Kangkong (*Ipomoea aquatica*) leaves extract and Jackfruit (*Artocarpus heterophyllus*) seeds extract using BSLA (Brine Shrimp Lethality Assay)”
- Participant: Mitch Angeli B. Salces
- Teacher-coach: Sarah Jane E. Cuadra

## II-B. LIFE SCIENCE – TEAM

- **Tagbilaran City Science High School**  
GUYABANO (*Annona muricata* linn.) LEAVES EXTRACT AND PAPAYA (*Carica papaya* linn.) SEED EXTRACT AS ALTERNATIVE ANTHELMINTIC AGAINST HAEMONCHUS CONTORTUS FROM GOATS (*Capra aegagrus hircus*)
- Participants: Faiyth Estelle A. Cabusao, Argelyn Mae G. Dalen, Jarrese Danielle P. Ocmar
- Teacher-coach: Flordynel A. Polo
- **Dr. Cecilio Putong National High School – SHS**  
INHIBITORY EFFECT OF SEA PURSLANE (*Sesuvium portulacastrum*) LEAF EXTRACT AGAINST *Escherichia coli*
- Participants: Brigitte C. Magdales, Josan Flone S. Genilo, John Carl H. Ampo
- Teacher-coach: Lindy S. Ochavillo

## III-A. ROBOTICS AND INTELLIGENT MACHINES – INDIVIDUAL

- **Dr. Cecilio Putong National High School – JHS**  
PAVED-TLS (Pedestrian and Vehicle Enhanced Detection-Traffic Light System): onesided pedestrian crosswalk
- Participant: Kira P. Pasagad
- Teacher-coach: Sarah Jane E. Cuadra

➤ **Holy Spirit School of Tagbilaran City – SHS**

Development of an Arduino-Based Automatic Flood Alarm and Drainage Control System for Flood Mitigation

- Participants: Jheril Xen A. Celocia
- Teacher-coach: Grace Prieto

**III-B. ROBOTICS AND INTELLIGENT MACHINES – TEAM**

➤ **Holy Spirit School of Tagbilaran City – SHS**

Developing An Offline Real-Time Sign Language To Text Translation Mobile Application For FSL (Filipino Sign Language)

- Participants: Julia Shilote K. Chiu, Isa M. Takashima, Zara Marie Krixiane B. Talan
- Teacher-coach: Gladys Bernadez

➤ **Tagbilaran City Science High School**

ECO-NET: ARDUINO PROTOTYPE FOR WiFi CONNECTION OPERATED BY DISPOSING PLASTIC BOTTLES

- Participants: Abraham Ethan B. Abbas, Mary Agnes L. Cua, Giovanna Rae B. Dologan
- Teacher-coach: Jasmine P. Belderol

**IV-A. INNOVATION EXPO – INDIVIDUAL**

➤ **Tagbilaran City Science High School**

ALTERNATIVE PARTICULATE MATTER FILTERING MACHINE FOR PLASTIC BOTTLES

- Participant: Althea B. Lamagna
- Teacher-coach: Lucille Saraspe-Varquez

**IV-B. INNOVATION EXPO – TEAM**

➤ **Tagbilaran City Science High School**

BIBU: BILDONG BUAK - AN ALTERNATIVE GLASS GRINDER FOR RECYCLING AND ECO-FRIENDLY GRANULATION

- Participants: Ronesa Marie O. Sayon, Denise Angelah S. Oculam, Stephany Kaye Villaces
- Teacher-coach: Jasmine P. Belderol

➤ **Dr. Cecilio Putong National High School – SHS**

Arduino-Powered Noise Alarm Monitoring System for Classroom Noise Reduction

- Participants: Tri Law Marion Craft S. Nayre, Lianne G. Reformina, Nathalie Rodrigues
- Teacher-coach: Jenelyn Abadiano

## **V-A. MATHEMATICS AND COMPUTATIONAL SCIENCE – INDIVIDUAL**

- **Tagbilaran City Science High School**  
MATHEMATICAL MODELING OF GABONG-TUBIG: AN ATMOSPHERIC WATER HARVESTING DEVICE
  - Participant: Nathaniel L. Muring
  - Teacher-coach: Alma Mae Putong

## **V-B. MATHEMATICS AND COMPUTATIONAL SCIENCE – TEAM**

- **Dr. Cecilio Putong National High School - SHS**  
SECOND-ORDER POLYNOMIAL MULTIPLE REGRESSION MODELING ON THE PERFORMANCE OF BAMBOO SHEATH AND JUTE LEAVES AS BIODEGRADABLE MULCH FILM
  - Participants: Raul Jr. V. Salo, Mareanne Louize E. Alaban, Realyn P. Cagas
  - Teacher-coach: Reneith Fideliz C. Alturas
  
- **Tagbilaran City Science High School**  
REGRESSION MODEL FOR DUAL-HARNESS UMBRELLA: HARVESTING ENERGY FROM THE SUN (RADIANT ENERGY) AND RAINDROPS (GRAVITATIONAL ENERGY) WITH TENGs AND MONOCRYSTALLINE SOLAR PANELS
  - Participants: Sam Stephan Mari J. Biliran, Kimora C. Penkian, Andrae Errol E. Quilicot
  - Teacher-coach: Ma. Antonette R. Rim

### **SIBOL ELEMENTARY CATEGORY**

- **Mansasa Elementary School**  
Mahogany (*Swietenia macrophylla*) Leaf Decoction as a Natural Herbicide for Weed Control
  - Participants: Yham Vincent C. Inting, Hannah Rose P. Bon, Isabela Nena E. Guerrero
  - Teacher-coach: Marielle Allosada
  
- **Manga Elementary School**  
EFFECTIVENESS OF TERMIGUARD AS AN ECO-FRIENDLY VARNISH AND TERMICIDAL AGENT
  - Participants: Ashley Eve D. Actub, John Harry T. Degamo, Ronan Gabriel Fudaranan
  - Teacher-coach: Fritzie R. Corpus

### **SIYENSIKULA – JUNIOR HIGH SCHOOL CATEGORY**

- **Bohol Child Head Start**
  - Participant: Jillian Ian Rojas
  - Teacher-coach: Shielo Angelica Agsoy

- **Tagbilaran City Science High School**
- Participant: Arianne Mara T. San Juan
- Teacher-coach: Jesmar Joseph Magdugo

**DIGITURO SA SIYENSYA – TEACHER CATEGORY**

- **Ubujan Elementary School**
- Teacher-Participant: Gielyn F. Jakosalem
  
- **Holy Name University**
- Teacher-Participant: Niña Samantha Pajo

2. Immediate and wide dissemination of this memorandum is desired.

  
**WILFREDA D. BONGALOS PhD, CESO V**  
Schools Division Superintendent