

Republic of the Philippines
Department of Education
REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

November 25, 2024

DIVISION MEMORANDUM
 NO. 496, s. 2024

CORRIGENDUM TO DIVISIONAL MEMORANDUM 462 S.2024
(2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR)

To: Assistant Schools Division Superintendent
 Chief Education Supervisors
 Education Program Supervisors
 All Public Secondary School Heads
 Teachers
 All Others Concerned

1. In reference to Regional Memorandum No. 905 s. 2024 **Corrigendum to Regional Memorandum 860 s. 2024**, this Office announces the rescheduled of the 2024 Regional Science and Technology Fair from November 25 to 26 to **November 26 to 27**, excluding travel time.

2. Below is the final list of participants and observers.

a. Participants

CATEGORY	RESEARCH PROJECT TITLE	Student Researcher	Coach	School
Physical Science Individual	Assessing the Performance of Banana Peel Extracts as an Eco-Friendly Floor Wax Alternative	Kristine P. Cajilla	Rheza Mae P. Ebal	Molugan National High School
Mathematics and Computational Sciences Individual	Optimizing Route and Traffic Flow in Barangay Cogon: A Strategic Plan for Livestock Auction Days	Jhairus James M. Abang	Liza May Duran-Nob	Cogon National High School
Science Innovation Expo Team	Banana Pseudo-Stem Reinforced Recycled Polyethylene Roof Tiles	Ralph Ivhan James O. Clarabal Mary Rose A. Mericuelo Camille G. Baguio	Dexby P. De Guzman	El Salvador City National High School



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Republic of the Philippines
Department of Education
REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

b. Observers


No.	Name	School	Position
1.	Marife P. Nuñez	Cogon NHS	Teacher II
2.	Phoebe Joy M. Pacut-Lopez	Cogon NHS	Master Teacher I
3.	Giovanni A. Mangayan	Molugan NHS	Master Teacher I
4.	Nemelie P. Ral	Molugan NHS	Master Teacher I
5.	Sandy Jane C. Nob	Cogon NHS	Learner
6.	Maricris D. Uy	Cogon NHS	Learner
7.	Harris Kim B. Palasan	ECNHS	Learner
8.	Aurish Joy Vecino	Molugan NHS	Learner
9.	John Clyde F. Eran	Molugan HS	Learner
10.	Marie Jade A. Cacayan	Division Office	Education Program Supervisor

3. *Parents and or guardians of the learners shall accomplish and submit Parents/ Guardians Consent Form to concerned teachers to indicate that they are allowing their child/ children to join the off-campus activity (Section VI.D.3). Attached is Annex C for reference.*

4. All other provision in the previous memorandum remain in effect.

5. This Office shall adhere to Equal Opportunity Principle (EOP) in the steps undertaken for this purpose. Hence, all decisions and actions shall be based on guidelines set forth, with no discrimination on the account of age, gender, identity, sexual orientation, civil status, disability, religion, ethnicity or political affiliation.

6. This Office directs the immediate and wide dissemination of this Memorandum.


RANDOLPH B. TORTOLA
Schools Division Superintendent

Encl.: As stated
Reference: Reginal Memorandum No. 905, 2024
To be indicated in the Perpetual Index
under the following subjects:

EXHIBITS
LEARNERS
SCIENCE EDUCATION

Re: 2024 Regional Science and Technology Fair

CID/mjac



Republic of the Philippines
Department of Education
REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

ANNEX C: PARENT'S/GUARDIAN'S CONSENT FORM
DO 66, s. 2017

Name of Learner: _____

Date of Birth: _____ Sex: _____

Parent's/Guardian's Name: _____

Relationship to Learner: _____

Home Address: _____

Contact Number/s: _____

Title of the Activity: _____

Venue: _____ Date of Activity: _____

As the parent/guardian of the abovementioned learner, I hereby acknowledge that I have been informed of the details of the off-campus activity and voluntarily and freely elect to participate in this off-campus activity. Furthermore, I understand the risks associated with an off-campus activity and agree that the rules and regulations established for the said activity are for the safety and security of the participants, and thus agree to instruct my child or children to obey them.

Having understood all the aforementioned, I hereby consent to allow my child or children to participate, acknowledging all of the foregoing. I am also solely responsible for providing travel insurance and any expenses for my child or children's participation in the activity.

Parent/Guardian's Name and
Signature

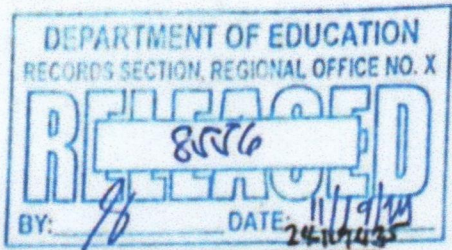
Date

Notes (other information you may wish to inform the teacher, such as child's medical condition, etc.):



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REGION X - NORTHERN MINDANAO



November 18, 2024

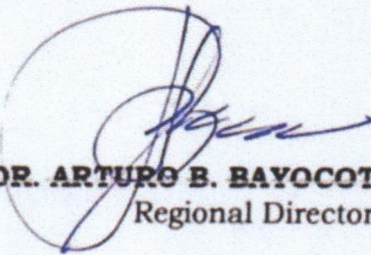
REGIONAL MEMORANDUM

No. 905, s. 2024

**CORRIGENDUM TO REGIONAL MEMORANDUM 860, S. 2024
(2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR)**

To: Schools Division Superintendents
Assistant Schools Division Superintendents
All Others Concerned

1. Relative to Regional Memorandum No. 860, s. 2024 titled **2024 Regional Science and Technology Fair**, the activity has been rescheduled to November 26 to 27, excluding travel time.
2. All other provisions in the previous memorandum remain in effect.
3. This Office directs the immediate and wide dissemination of this Memorandum.


DR. ARTURO B. BAYOCOT, CESO III
Regional Director

ATCH.: As stated
To be indicated in the Perpetual Index
under the following subjects:

SCIENCE FAIR

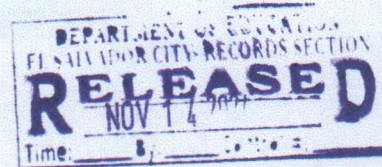
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Republic of the Philippines
Department of Education
REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

November 12, 2024

DIVISION MEMORANDUM
 NO. 462, s. 2024

2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR

To: Assistant Schools Division Superintendent
 Chief Education Supervisors
 Education Program Supervisors
 All Public Secondary School Heads
 Teachers
 All Others Concerned

- In reference to the Regional Memorandum No. 860 s. 2024 Regional Science and Technology Fair, this Office announces the conduct of the activity on November 25 – 26 at Cagayan de Oro City National High School – Junior High School, Nazareth, Cagayan de Oro City.
- The official participants for the 2024 Regional Science and Technology Fair are the following:

CATEGORY	RESEARCH PROJECT TITLE	Student Researcher	Coach	School
Life Science Individual	Bioactive Compounds of <i>Imperata cylindrica</i> as Potential Therapeutic for Cancer	Sandy Jane C. Nob	Phoebe Joy M. Pacut-Lopez Christine Heazel O. Francisco	Cogon National High School
Life Science Team	Antimicrobial Efficacy of <i>Averrhoa carambola</i> leaf extract against Gram-positive and Gram-negative bacterial strains	Angel Mae A. Magnetico Cielo B. Erestingcol Jhanhia Mhie S. Bonayog	Grace M. Bermudez	Hinigdaan National High School
Physical Science Individual	Assessing the Performance of Banana Peel Extracts as an Eco-Friendly Floor Wax Alternative	Kristine P. Cajilla	Rheza Mae P. Ebal	Molugan National High School



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SCHOOLS DIVISION OF EL SALVADOR CITY

CATEGORY	RESEARCH PROJECT TITLE	Student Researcher	Coach	School
Physical Science Team	Improving Coconut Honey: Effect of Kalamansi (<i>Citrofortunella macrocarpa</i>) Extract on Sucrose Recrystallization During Cold Storage	Harris Kim B. Palasan Trisha A. Burton Nikko John A. Carcallas	Dexby P. De Guzman	El Salvador City National High School
Mathematics and Computational Sciences Individual	Optimizing Route and Traffic Flow in Barangay Cogon: A Strategic Plan for Livestock Auction Days	Jhairus James M. Abang	Liza May Duran-Nob	Cogon National High School
Mathematics and Computational Sciences Team	Identification of Suitable Solid Waste Collection Points through the GIS Approach in Barangay Cogon, El Salvador City	Geomark B. Pana Blare Dashel M. Decinilla Jenny B. Rabina	Liza May Duran-Nob	Cogon National High School
Robotics and Intelligent Machines Individual	Automatic Wet and Dry Waste Segregation System	Aurish Joy Vecino	Nemelie P. Ral	Molugan National High School
Robotics and Intelligent Machines Team	GAS SAFE PRO: Advanced Arduino Powered LPG Leak Detection with Real-Time Auto Shut-off System	John Clyde F. Eran Ellah R. Daluperi Diana Mae E. Castillon	Giovanni A. Magayan	Molugan National High School
Science Innovation Expo Individual	<i>Colocasia esculenta</i> as a Sustainable Biomaterial: A Viable Alternative to Traditional Leather	Maricris D. Uy	Marife P. Nuñez Marites T. Jariolne	Cogon National High School
Science Innovation Expo Team	Banana Pseudo-Stem Reinforced Recycled Polyethylene Roof Tiles	Ralph Ivhan James O. Clarabal Mary Rose A. Mericuelo Camille G. Baguio	Dexby P. De Guzman	El Salvador City National High School



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REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

3. All entries are to submit their soft copies to mariejade.cacavan@deped.gov.ph on or before November 15, 2024 following the guidelines of the National Science and Technology Fair handbook downloadable at <https://bit.ly/R10NSTFHandbook> and attach its attachments (e.g. INTEL-ISEF Forms and logbooks) for Preliminary Screening.
4. The participants' food, accommodation, travel and other incidental expenses shall be charged against division/school MOOE/ local funds while food and accommodation of the TWG shall be charged to the Regional Office and Central Office (CO) funds, subject to the usual accounting and auditing rules and regulations.
5. Participation to this activity shall be subject to the non-disruption of classes policy stipulated in **DepEd Order No. 9, s.2005** titled **Instituting Measure to Increase Engaged Time on Task and Ensuring Compliance therewith.**
6. This Office shall adhere to Equal Opportunity Principle (EOP) in the steps undertaken for this purpose. Hence, all decisions and actions shall be based on guidelines set forth, with no discrimination on the account of age, gender, identity, sexual orientation, civil status, disability, religion, ethnicity or political affiliation.
7. This Office directs the immediate and wide dissemination of this Memorandum.


RANDOLPH B. TORTOLA
Schools Division Superintendent

Encl.: As stated
Reference: Reginal Memorandum No. 860, 2024
To be indicated in the Perpetual Index
under the following subjects:

EXHIBITS SCIENCE EDUCATION

RE: 2024 Regional Science and Technology Fair

CID/mjac



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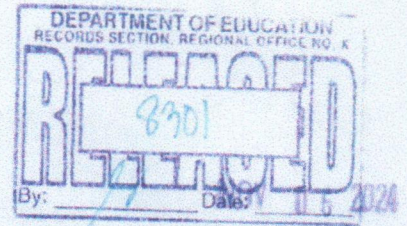
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Republic of the Philippines
Department of Education
REGION X - NORTHERN MINDANAO



24-18581

November 6, 2024

REGIONAL MEMORANDUM

No. 860, s. 2024

2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR

To: Schools Division Superintendents
Assistant Schools Division Superintendents
All Others Concerned

1. Following the **DepEd Unnumbered Memorandum** titled **National Science and Technology Fair for School Year 2024-2025**, this Office announces the conduct of the 2024 RSTF with the theme **Towards a Shared Vision: Exploring the Future for a Better Tomorrow** at Cagayan de Oro City National High School – Junior High School, Nazareth, Cagayan de Oro City, on November 25-26.

2. The activity aims to empower the youth and cultivate innovation and creativity and showcase competence of the learners in addressing community problems for sustainable development and to maximize their potentials of being inquisitive and creative in dealing with real life problems.

3. The RSTF 2024 features two contests:

TUKLAS-A Research Project Fair: A STEM research competition that provides opportunities for Junior and Senior High School learners to showcase their research projects based on their field of interest and/or real- world problems, issues, and concerns.

INNOVATION EXPO-GAWAD AgLiTekno: A Technology Innovation competition which aims to recognize the most creative and market viable project addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture, and environment.



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Contest	Categories	Subcategories	No. of participants	Adviser
TUKLAS A Research Project Fair	Life Science	Individual	1	1
		Team	2-3	1
	Physical Science	Individual	1	1
		Team	2-3	1
	Robotics and Intelligent Machines	Individual	1	1
		Team	2-3	1
Mathematics and Computational Science	Individual	1	1	
	Team	2-3	1	
INNOVATION EXPO-GAWAD AgLiTekno	Individual		1	1
	Team		2-3	1

4. Attached are the Guidelines on the Conduct of 2024 RSTF and the Timeline of Activities for reference.
5. An SDO-made link containing all the entries must be submitted to nick.panares@deped.gov.ph on or before November 18, 2024. Each entry and its attachments (e.g. INTEL-ISEF Forms and logbook) must be enclosed in a folder.
6. Folder and file naming conventions in page 41 of the NSTE Handbook must be followed.
7. First, second, and third places will be declared as winners during the awarding program to be conducted immediately after the competition. Only the first placers will be endorsed to the Central Office for the NSTF SY 2024-2025. Medals (for the winners), and certificates (for all students and coaches) will be awarded as well.
8. All entries must be submitted with an accomplished Review and Recommendation Report found in page 43 of the NSTF Handbook.
9. Late and /or incomplete submission of entries and its required attachments (as indicated in Checkpoints for SRC Review in page 31) will cause an automatic disqualification.
10. Research paper formats (page 23 and 30), List of Forms and Documents Required for Submission in All Levels of Competition (page 35), Innovation Expo Screening Form (page 36), Innovation Expo Judges Form (page 37), Project Evaluation Form or Criteria (page 50), and parts for the Research Poster are found in the NSTF Handbook downloadable at <https://bit.ly/R10NSTFHandbook>.
11. A separate memorandum will be issued for the top 5 qualifiers in each category from the initial screening, who will advance to the Regional Science and Technology Fair (RSTF) for the actual validation, showcasing, and screening of their projects.

12. The participants' food, accommodation, travel and other incidental expenses shall be charged against division/school MOOE/local funds while food and accommodation of the TWG shall be charged to Regional Office (RO) and Central Office (CO) funds, subject to the usual accounting and auditing rules and regulations.

13. For questions and clarifications, please contact Nick C. Pañares, Education Program Supervisor at nick.panares@deped.gov.ph.

14. This Office directs the immediate and wide dissemination of this Memorandum.


DR. ARTURO B. BAYOCOT, CESO III
Regional Director

ATTN: As stated
To be indicated in the Perpetual Index
under the following subjects:

EXHIBITS SCIENCE EDUCATION

RE: National Science and Technology Fair for School Year 2024-2025

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2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR

GUIDELINES IN THE CONDUCT OF 2024 RSTF

(Reference: School, Division, Regional, and National Science and Technology Fair Guidebook, First Edition)

The procedures for the competition are as follows:

1. The competition is open to Grades 9-12 learners of both public and private high schools in Region 10.
2. Learners may work individually or in teams with 2-3 members from the same school. Each learner is only allowed to submit one (1) research project in one (1) of the four (4) research categories: Life Science, Physical Science, Robotics and Intelligent Machines, and Mathematics and Computational Sciences. The project should include no more than 12 months of continuous research and should not include research activities performed before January of the previous school year. (e.g., For the school year 2024-2025 with the target opening of classes on July 2024 and ISEF on May 2025, research projects may be accomplished within 1-12 month/s starting from January 2024 to January 2025).
3. The winners in each category of TUKLAS and Innovation Expo in the Division Science and Technology Fair (DSTF) will be screened by the Regional Scientific Review Committee (RRC) via online submission and evaluation of projects through necessary documents and attachments based on the complete guidelines for judging the competition.
4. In addition to item number 3, a video with a span of 3 to 5 minutes must also be submitted for further validation showcasing the process of the innovation Expo or Tuklas Project with highlights on the research output.
5. The top 5 qualifiers of each category from the initial screening will advance to the Regional Science and Technology Fair (RSTF) for the actual validation, showcasing, and screening of the project. First placers in each category in the Regional Science and Technology Fair (RSTF) will advance to the National Science and Technology Fair (NSTF).
6. Participation in this activity is voluntary and no registration fee will be collected.



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2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR

Timeline of Activities

Activity	Date	Responsible Office / Unit
Online Orientation of Regional Technical Working Group (RTWG) and All Science EPSs	November 15, 2024	CLMD
Online Submission of Official Participants per SDO	November 18, 2024	CLMD
Online Submission and Preliminary Screening of Division Entry for Each Contest Category	November 18, 2024	CLMD and RRC
Announcement of Qualified Entry for the Regional Science and Technology Fair	November 22, 2024	CLMD
Online Solidarity Meeting between RTWG and the Coaches	November 22, 2024	CLMD
Regional Science and Technology Fair	November 25-26, 2024	CLMD
Final Revision of Winning Entry and Other Requirements	November 27 – December 10, 2024	OSDS, CID, and CLMD
Submission of Results and Reports to BCD, DepEd CO	December 12, 2024	CLMD
NSTF	March 10 14, 2025	BCD



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