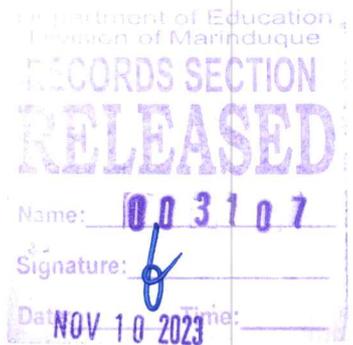




Republic of the Philippines
Department of Education
MIMAROPA REGION
SCHOOLS DIVISION OF MARINDUQUE



Office of the Schools Division Superintendent

November 6, 2023

DIVISION MEMORANDUM

No. **70** s. 2023

**CONDUCT OF DIVISION SCIENCE & TECHNOLOGY FAIR (DSTF)
FOR SY 2023-2024**

To: Assistant Schools Division Superintendent
Chief Education Supervisors
Public Schools District Supervisors
Public & Private Secondary School Heads
All Others Concerned

1. DepEd recognizes the importance of conducting a Science and Technology Fair as it encourages students to develop essential research skills such as critical thinking, problem-solving and in promoting innovation and creativity. In as much as these skills are critical for academic success and can help students prepare for future academic and career pursuits, this Division, shall hold a Division Science & Technology Fair for SY 2023-24 on November 16, 2023, at Matuyatuya NHS, Torrijos, Marinduque and an online meeting with the student researchers and coaches who were awarded first-place in the Division level on November 17, 2023 via link to be provided on the day of the meeting.
2. The Division Science & Technology Fair 2023 is a division-wide science and research competition that aims to stimulate learner's interest in science and provide them as well as their science teachers valuable experiences, specifically to:
 - a. make science principles alive, meaningful and relevant to the learners;
 - b. promote science and technology consciousness among the youth;
 - c. identify the most creative and best science students' researches to represent the division in the regional, national and international science fairs; and
 - d. strengthen skills of teachers in research and pedagogy thus, enhancing science competence through healthy and friendly competition.
3. The participants to this activity are the student-researchers and advisers with approved Research Projects based on the results of the Division Screening. Public Schools District Supervisors and Secondary Science Coordinators are included as official participants in the said competition. Other science enthusiasts may also attend the said activity.
4. General Guidelines of the DSTF, Officials of the Contest, Template on the

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Report on the Conduct of the DSTF, End of Activity Report Format, Activity Matrix, and List of Qualified Research Projects are attached as enclosures to this Memorandum.

5. A registration of P 100.00 from the student-participants and coaches shall be collected to defray expenses for the food of the Members of SRC and Contest Officials.
6. Immediate dissemination of the contents of this Memorandum is desired.

LYNN G. MENDOZA, EdD
OIC, Schools Division Superintendent

Encls: As stated
Reference: Regional Memorandum No. 125, s. 2023
To be indicated in the Division Perpetual Index
Under the following subjects

CONTESTS
LEARNERS

LEARNING AREA, SCIENCE
TEACHERS



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Enclosure No. 1 to Division Memorandum No. **170** s. 2023

General Guidelines of the Science & Technology Fair 2023

THE COMPETITION

1. All Research Projects that passed the Division Screening are qualified to participate in the Division Science & Technology Fair 2023 which is divided into ten categories:
 - a. Life Science -Individual
 - b. Life Science-Team
 - c. Physical Science-Individual
 - d. Physical Science-Team
 - e. Robotics & Intelligent Machine-Individual
 - f. Robotics & Intelligent Machine-Team
 - g. Mathematics & Computational Science-Individual
 - h. Mathematics & Computational Science-Team
 - i. Innovation Expo-Individual
 - j. Innovation Expo-Team
2. All participants should observe and follow the schedule as stipulated in the program matrix of this competition.
3. The decision of the Board of Judges is final and irrevocable and with the following prizes and awards:
 - a. First Place
 - b. Second Place
 - c. Third Place
 - d. Fourth Place
 - e. Fifth Place
4. The first to third placers shall receive a medal and Certificate of Recognition, while the fourth and fifth placers shall only receive a Certificate of Recognition.

THE HOST SCHOOL

1. The Science & Technogym Fair 2023 will be hosted by Matuyatuya NHS and is requested to:
 - a. provide information board at the entrance of the school to guide the participants in the contest venue;
 - b. assigned contest room/venue with labels;
 - c. provide the needed facilities such as chairs, tables, LCD projectors and screens, sound system and lights.
 - d. coordinate the room assignment of the participants, Board of Judges (BOJs) and the Program Management Team (PMT); and

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- e. submit a narrative report including documentation and consolidation of the contest using the attached format (Enclosure No. 3).

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Enclosure No. 2 to the Division Memorandum No. 70 s. 2023

OFFICIALS OF THE CONTEST

Over-all Chairperson: Dr. Ma. Shiela S. Saet
Vice-Chairperson: Dr. Jay P. Peña
Members: Mr. Jerome S. Catamio
Mrs. Elizabeth R. Paralejas
Science Teachers of Matuyatuya NHS

DISTRIBUTION OF WRITE-UPS FOR THE DIVISION SCREENING OF RESEARCH PAPER

Chairperson: Mrs. Maricel O. Solas
Members: Mrs. Virginia L. Monleon
Mr. Jefferson O. Mameng

LIST OF CONTEST OFFICIALS FOR THE DIFFERENT CONTEST CATEGORIES

CATEGORY	POWERPOINT	TABULATOR	TIMER	BOJ
Life Science	Matuyatuya NHS	Mrs. Madilyn Q. Quirona	Matuyatuya NHS	Dr. Melanie M. Mendoza Mr. Dave Henry R. Nobleza Mr. Fristian Anthony L. Dormido
Physical Science	Matuyatuya NHS	Mrs. Bernadeth Ricafrente	Matuyatuya NHS	Prof. Panchito M. Labay Mrs. Riena I. Rodriguez Mrs. Maily M. Go
Robotics & Intelligent Machine	Matuyatuya NHS	Mr. Jimmy Romasanta	Matuyatuya NHS	Mr. Richard N. Ortiz Mr. Kyle David N. Atienza Mr. Perry Angelo Manlapaz
Innovation Expo	Matuyatuya NHS	Mrs. Annaliza M. Retardo	Matuyatuya NHS	Mrs. Carmela M. Lolong Mr. Jerome Catamio Mr. Rodel Magyaya

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Enclosure No. 3 to the Division Memorandum No. **70** S. 2023

Template on the Report of the Conduct of the DSTF

The consolidated report of the conduct of the DSTF must be submitted to the Division Science Supervisor one week after the conduct of DSTF. The report should include the following:

1. **Title**
2. **Table of Contents**
3. **Introduction/Rationale**
4. **Detailed Information**
 - ✓ General information
 - ✓ SRC Deliberation (include the results, findings and recommendations)
 - ✓ Program of Activities (day-to-day activities)
 - ✓ List of Entries (include a brief profile of the research adviser of each entry)
 - ✓ List of Winners (Research & Innovation Congress)
 - ✓ Trend Analysis (results from 3 consecutive years)
 - ✓ Financial Report
5. **Conclusions**
6. **Recommendations**
7. **Appendix**

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Enclosure No. 4 to the Division Memorandum No. 70 s. 2023

End of Activity Report Format for the Division Science and Technology Fair

The end of activity report should contain the following sections:

1. **Title Page:** Include the name of the division and a clear, and concise title of the report.
2. **Table of Contents:** List all the sections of the report and their corresponding page numbers to help readers navigate the document.
3. **General Information:** Provide a broad overview of the fair, including its purpose, goals, and objectives, as well as information on its structure, participants, and timeline.
4. **Results:** Present the results of the fair, including statistics and data related to the number of entries, participants, and winners, as well as any trends or patterns observed.
5. **List of Activities Conducted:** Provide a detailed list of the activities conducted during the fair, including dates, locations, and participants.
6. **List of Entries:** Provide a list of all entries submitted to the fair, including the title, author, and category.
7. **List of Winners:** List the winners of the fair, including the title, author, and category.
8. **Financial Report:** Provide a detailed financial report of the fair, including expenditures and income, as well as any funding sources.
9. **Conclusions:** Summarize the main findings and conclusions of the fair, and provide recommendations for future action.
10. **Recommendations:** Provide specific recommendations for future action, based on the findings of the fair, and identify areas for improvement.
11. **Appendix:** Include any additional materials, such as detailed data tables, charts, or other relevant documents, that support the findings of the report.

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Enclosure No. 5 to the Division Memorandum No. **70** s. 2023

Activity Matrix

Time	Activity
7:00-8:30 AM	Registration
8:30-9:30 AM	Opening Program
9:30-10:00 AM	BREAK
10:00-12:00	Science Congress Life Science Physical Science Robotics & Intelligent Machine Science Innovation Expo
12:00-1:00 PM	Lunch Break
1:00-4:00 PM	Continuation of Science Congress
4:00-5:00 PM	Awarding Ceremony

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Enclosure No. 6 to the Division Memorandum No. 70 s. 2023

List of Qualified Research Projects

LIFE SCIENCE-INDIVIDUAL CAGEGORY					
Code	Title	Proponents	Adviser	School	District
LS-I-01	Taro (Colocasia esculenta) Banana (Musa cardaba) and Papaya (Carica papaya) leaves extract as a Biological attraction for golden Apple Snail (pomocea canaliculata)	Jade R. Revilloza	Rachelle Pernia	Makapuyat Nhs	Sta. Cruz East
LS-I-02	Level of Acceptability of Banana Peel (<i>Musa acuminata</i> x <i>M balbisiana</i>) Paper	Rean Angelle O. Cruz	Mark Vincent S. Valencia	Buenavista National High School	Buenavista
LS-I-03	Aquatic Impact Assessment of Heavy Metals in Fish at Boac River, Marinduque: Two Decades After the Mining Disaster	Angelique Josh B. Mandia	Chistine J. Nanling	Marinduque Nhs	Boac North
LS-I-04	Microbiological Analysis of Nami (<i>Dioscorea hispida</i>) Roots Flour	Macy Elliane M. Retardo	Jefferson O. Mameng	Marinduque Nhs	Boac North
LS-I-05	Antifungal Effects of garlic (<i>Allium sativum</i>) Peel extract Againts Postharvest (<i>Colletotrichum musae</i>) Didease in Saba Bananas	JADE R. REVILLOZA		Landy NHS	Sta. Cruz North

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LS-I-06	Alugbati Cookie as Alternative Healthy Cooney	Bai Jamelerin P. Lidasanan	Joseph M. Balatico	Matalaba NHS	Sta. Cruz South
LS-I-07	Carbonized Rice Hall ang Calamansi (Citrus microcarpa) leaves extract as Bio-Molluscicidal agent for golden Apple Snail (Pomacea canaliculata)	John Renz M. Constantino	Perry Angelo C. Manlapaz	Landy NHS	Sta. Cruz North
LS-I-08	Why NoT : Exploring the Potential of Coconut water (Cocos Nucefa) as a Promising Bio-sweetener	Lyka F. Palatino	Perry Angelo C. Manlapaz	Landy NHS	Sta. Cruz North
LS-I-09	Ginger: An organic Insecticide Extraction from garlic (Allium sativum) Vinegar(acetic Acid) and Ginger (Zingber officinale)	John Rafael E. Tagbago	Maily M. Go Emalyn Rodil	Landy NHS	Sta. Cruz North

LIFE SCIENCE-TEAM CAGEGORY

Code	Title	Proponents	Adviser	School	District
LS-T-01	Oreaney: A Candy Made Of Origano (Origanum Vulgare) Calamansi (Citrus Microcarpa) And Honey	Melody Q. Paredez Steven Vyrant Pinaflorida Jhon Patric Rodil	Ms. Rachelle Pernia	Makapuyat Nhs	Sta. Cruz East
LS-T-02	Tomalo (Solanum Lycopersicum) Lip Balm	Jean Ann Rocha Joross Castro	Ms. Rachelle Pernia	Makapuyat Nhs	Sta. Cruz East
LS-T-03	Effectiveness of Oregano (Origanum vulgare) Leaves and Sugar Apple (Annona squamosal L.) Leaves Extract to Prolong the Shelf Life of Latundan	James Emmanuel M. Luisaga Jacob Ozias M. Mabunga Cyrus James M. Perez	Ms. Jing-Jing L. Mendoza	Marinduque Nhs	Boac North

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	Banana (Musa acuminata x M. balbisiana).				
LS-T-04	Effectiveness of Fermented fertilizer made out of Carabao Grass (Paspalum conjugatum) leaves and Malunggay (Moringa oleifera) Stem and Leaves on the Growth Rate of Mung Bean (Vigna radiata)	Terrence H. Olivar Draven Gomer M. Jambalos Kian Christopher L. Carig	Christine J. Naling	Marinduque Nhs	Boac North
LS-T-05	Physio-chemical and Microbiological Analysis of Water from Saba Banana (Musa acuminata x balbisiana) Pith	Jaden Sjandel Deanne G. Luzares Rhian Aqillah R. Mantal Zidana Fathima Khan M. Chirakkandathil	Jefferson O. Mameng	Marinduque Nhs	Boac North
LS-T-06	In vivo anthelmintic activity of makahiya (Mimisa pudica), Bunga (Areca catechu), and Moringa (Moringa oleifera) leaves in semi-scaveging Philippine native chicken	Marynelle Julia A. Prieto Mishairre R. Revidizo Ruth Anne E. Valdeviezo		Landy NHS	Sta. Cruz North
LS-T-07	Shrimp (Caridea asp.) Shell-Extracted Chitin as Fertilizer	Jhon Mathew E. Maling Dichebelle Ann R. Mediana Sharan Natalie Riego	Mark Emvee S. Valencia	Buenavista National High School	Buenavista
LS-T-08	The Feasibility of Malabar Chestnut (Pachira Aquatica) Seeds as an Alternative Tea Powder	Vic Anthony P. Estrella Mary Ellaine R. Cabiles Mariel M. Pondevida	Lucita E. Pilar	Matuyatuya National High School	Torrijos
LS-T-09	Hagonoy (Charmolaena Ordoratal) Leaves As Component In Making An Organic Repellant	Bianca R. Gonzales Merry R. Fernandez		Tagum Nhs	Mrs. Jessica R. Samson

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LS-T-10	Effectiveness of Fertilizer Infused with Calcium Carbonate from Mussels Shell (<i>Mytilus edulis</i>)	Meria Joy Dela Cruz Kybille Jade C. Lining Mhyca Kharyl S. Ricablanca	Mark Vincent S. Valencia	Buenavista National High School	Buenavista
LS-T-11	Boosting Growth performance and Nutrition of Nile Tilapia (<i>Oreochromis niloticus</i>) with Cutterfish bone (<i>Sefia officinalis</i>) and Sea Purslane (<i>Sesuvium portulacastrum</i>)	Mekylla Penaranda John Roger Revilla Jake Mercado	Perry Angelo C. Manlapaz Mailyn M. Gp	Landy Nhs	Sta. Cruz North
LS-T-12	Assessing the Viability of Taro (<i>Calocasia Osculenta</i>) Stem and Kapok Tree (<i>Ceiba Pentandra</i>) Cotton Fruit for Sustainable Face Mask Production	Raizza Mae p. Ricohermozo Ivy Luna	Perry Angelo C. Manlapaz Mailyn M. Gp	Landy Nhs	Sta. Cruz North

PHYSICAL SCIENCE-INDIVIDUAL CATEGOR Y

Code	Title	Proponents	Adviser	School	District
PS-I-01	Extraction of fiber from Coconut petiole (<i>Cocos nucifera</i>) for Rope	Fatima Cruzado	Alfolso R. Reginio Bede Jaybert C. Mascareñas Nira J. Logmao	Makapuyat Nhs	Sta. Cruz East
PS-I-02	Corn (<i>Zea Mays</i>) Husk Plantable Cup Sleeves	Alannah Monteronzo	Alfolso R. Reginio Bede Jaybert C. Mascareñas Nira J. Logmao	Makapuyat Nhs	Sta. Cruz East
PS-I-03	Cadena de Amor (<i>Antigonon leptopus</i>) as a Potential Source for	Kathleen Rose O. Nabos	Fristian Anthony L. Dormido	Marinduque NHS	Boac North

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	Bioethanol Production				
PS-I-04	The Feasibility of Coconut (Cocos nucifera) Husk, Snake Plant (Dracaena trifasciata) leaves and Potato Starch in Making Packaging Paper	Zhian Rhay N. Fariñas	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
PS-I-05	Feasibility of Taro(Colocasia esculenta) leaves, Cucumber (Cucumis sativus) peels, and Pomelo (Citrus maxima) peels as Edible Straw	Alzhea Mercene L.	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
PS-I-06	BL- FINE : A Potential Supplementary Cementitious Material and Aggregate for Sustainable Cement - Based Construction Material	Andrei Jherome O. Parreño	Paolo Andrew Pantoja	Landy NHS	Sta. Cruz North
PS-I-07	The Feasibility of Kapok Tree Cotton (Ceiba pentandra) as alternative Source of paper	Kristoffer Gerando R. Diana	Perry Angelo Manlapaz	Landy NHS	Sta. Cruz North

PHYSICAL SCIENCE-TEAM CAGEGORY

Code	Title	Proponents	Adviser	School	District
PS-T-01	Hydroguard: Prototype Boat as Solid Waste Collector	Sheree Anne Medina Jasper Ferdi Sabian	Alfolso R. Reginio Bede Jaybert C. Mascarenañas Nira J. Logmao	Makapuyat Nhs	Sta. Cruz East
PS-T-02	Cassava (<i>Manihot esculenta</i>) Starch and Pineapple (<i>Ananas comosus</i>) Fiber as an	April Shaine B. Serdeña Jamilla Chynne P. Mortel	Gueller Dee V. Salazar	Bangbang NHS	Gasán

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	Alternative Biobased Plastic	3Allaiza Nicole R. Pastoral			
PS-T-03	Utilization of Coconut (Cocos Nucifera) Shell Charcoal, Gravel, Sand, and Cellulose Acetate from Cigarette Butts as a Water Filtration Device	Jamari Kain L. Mabato Denise Mae L. Itulid Osmond Eurick B. Molea	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
PS-T-04	Utilization of Chicken (Gallus gallus domesticus) Feathers, Nipa palm (Nypa fruticans) Husk, and Taro (Colocasia esculenta) Stem as Adsorbent of Used Engine Lubricant Oil	Mhel Rvie L. Monleon Ralf Bernard Viktor N. Aurin Kian Fritz Jair M. Chavez	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
PS-T-05	The Feasibility of Saba Banana(Musa acuminata x balbasiana) Psuedostem as an alternative Mailer for packaging	Jhon Mico S. Nazareno Leighnard Christian P. Principe Gierome L. Monleon	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
PS-T-06	Potential of bamboo (Bambusoideaea) shool as a green composite Bioplastic Film	ANGELYN R. CERIBO DYANNA R. RIOVEROS NIÑO ANGELO PEÑAFLOR	Paolo Andrew M. Pantoja	Landy NHS	Sta. Cruz North
PS-T-07	(Papel De Mangifera) Eco Paper Production: Mangifera Dry Leaves as the Main Component in Paper Making	John Kirby Prieto Wyn Shane Pastoral Eula Valerie Mabaness	Maria Leslynne S. Sguid	Matuyatuya NHS	Torrjos
PS-T-08	Feasibility of Pomelo (Citrus maxima) Extract as an Alternative Foot Soak	Nichole N. Ancheta Lovely M. Magtahao Maxine Althea S. Sarmiento	Mark Anthony S. Nite Muriel M. Jinang	Tapuyan NHS	Gasán
PS-T-09	Banana (Musa sanpientum) De Papel	Princess Angel R. Recto	Billones Sherly P.	Matalaba NHS	Sta. Cruz South

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	A Paper Made Out of Banana Peel	Jhanna Jean R. Rocha			
PS-T-10	Feasibility of COSSAVA as Organic Paper	Jazelane G. Andrade Jhean Trizia M. Ladag Eloise Caren N. Junio	Genlie Motol	Tigwi NHS	Torrijos
PS-T-11	Biodegradable Paper from Cogon Grass (<i>Imperata cylindrica</i>)	Akilah Joie P. Pastorfide Micah Angeli P. Rey	Jessica P. Romasanta	Matalaba NHS	Sa. Cruz South
PS-T-12	Tilaok Eggcubator Solar- Powered Egg Hatcher with Temperature Controlled automatic system	Jerome R. Mago Christoper Nhel M. Palatino Jairuz P. Pedernal	Emalyn R. Rodil Mailyn M. Go	Landy NHS	Sta. Cruz North
PS-T-13	Biopolymer Plastic Seaweed(Kappaphycus alvarezii)	Merra Althea P. Penaflores Jang Geum M. Regencia Kate Ann M. Martinez	Emalyn R. Rodil Mailyn M. Go	Landy NHS	Sta. Cruz North

ROBOTICS INTELLIGENT MACHINE-TEAM CATEGORY

Code	Title	Proponents	Adviser	School	District
RIM-T-01	Tick - Tock Feeder: A Study of time-Controlled Automatic Feeding System for Commercial Poultry	Peñaranda, Mark Nathaniel P. Roldan, Mark Levi A. Piguerra, Roven M.	Mrs. Emalyn R. Rodil Mailyn M. Go	Landy NHS	Sta. Cruz North
RIM-T-02	Arduino-Based Watering System with Multipurpose Humidification and Soil Moisture Level Monitoring for Household Plants	Cydel Neth Q. Lingon Renee J. Huerta	Fristian Anthony L. Dormido	Marinduque NHS	Boac North
RIM-T-03	Raspberry Pi Based Dual-Purpose Quick Response Code Scanner for Class Attendance with SMS Notification	Keira Erin N. Buñag Raisel Faith L. Sacro Nicole Ashley C. Rianzares	Fristian Anthony L. Dormido	Marinduque NHS	Boac North

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SCIENCE INNOVATION EXPO EXPO-INDIVIDUAL CATEGORY					
Code	Title	Proponents	Adviser	School	District
ISS-I-01	Essential Oil (<i>Origanum vulgare</i> ; Oregano, <i>Laurus nobilis</i> ; Bay leaves and <i>Cymbopogon nardus</i> ; Citronella) Lamp as an Alternative for d-Allethrin Coil Mosquito Repellent	Lovely Joy Faith C. Vitto	Gueller Dee V. Salazar	Bangbang NHS	Gasan

SCIENCE INNOVATION EXPO-TEAM CATEGORY					
Code	Title	Proponents	Adviser	School	District
SIS-T-01	Project Sinag: Solar Driven Hydrothermal Liquefaction System for Biocrude Oil Production of Different Plastic Wastes	Rocero, Jhon Emmanuel P. Racelis, Kathleen Grace Recto, Adrian P.	Mrs. Maily n Go Mr. Perry Angelo C. Manlapaz	Landy NHS	Sta. Cruz North
SIS-T-02	StyroCorals: An Epoxy Resin- coated Styrofoam as artificial Coral Reef	De Luna, Cassandra Mei Dc. Deligero, Yllaiza Z.	Mr. Perry Angelo C. Manlapaz	Landy NHS	Sta. Cruz North
SIS-T-03	Arduino- powered Earthquake Detection and Warning Device with Sound Alarm	Ordillano, Nimrod li A. Villanueva, Kenrich T. Alilio Michael Levie M.	Mrs. Riena I. Rodriguez	Marinduque NHS	Boac North
SIS-T-04	Solar - Powered Silent Minivacuum Cleaner	Ma. Alliya M. Ricamara Vince Christian A. Fabrero Gilbert B. Pastoral	Genlie M. Motol	Tigwi NHS	Torrios
SIS-T-05	Eco-friendly Development of Garbage Shredding Machine from Recycled Materials.	Matt Wencil s. Baluyot Gielaisa Craize S. Mascariñas Krisha Mae L. Serdeña	Gueller Dee V. Salazar	Bangbang NHS	Gasan

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