



Republic of the Philippines  
**Department of Education**  
 REGION I



**REGIONAL MEMORANDUM**

DEC 15 2023

No. 1342 s. 2023

**WINNERS OF THE 2023 REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF)**

To: Schools Division Superintendents

1. The Department of Education Regional Office 1 (DepEd RO1) through the Curriculum and Learning Management Division (CLMD) extends its warmest congratulations to the following winners of the 2023 Regional Science and Technology Fair (RSTF) with the theme -*“Rebuilding Resilient Communities: Embracing Science and Technology for a Sustainable Future”* held on November 30 - December 1, 2023 at the National Educators Academy of the Philippines -Region 1 (NEAP-R1), San Vicente, City of San Fernando, La Union:

**a.) Life Science-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	OXYRIZON: A Novel Biostimulant In Enhancing Crop Resilience of Onion ( <i>Allium cepa. L.</i> ) In Waterlogged Clay Soil	Adrian Q. Azada Coach: Anna Mae T. Valdez	Regional Science High School for Region 1, La Union
2nd	Effects of Naphthalene Acetic Acid on Adventitious Root Development and Associated with Physiological Changes in Grafting <i>Nephelium lappacenn Linn.</i>	Leobert Aaron J. Miranda Coach: Jayson D. Adena	San Nicolas NHS, Ilocos Norte
3rd	Therapeutic Potential of Cantaloupe ( <i>Cucumis melo var. cantalupensis</i> ) and Pineapple ( <i>Ananas comusus</i> ) Rind Chewing Candy as a Neurotransmitter Agent	Kimberly Capuno Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City
4th	Platelet Anti-aggregant Property from Bignay ( <i>Antidesma bunius</i> ) Leaves and Tartaraok ( <i>Combretum indicum</i> ) Leaves Extract As An Effervescent Tablet	Carl Anthony O. Gameng Coach: Bernard G. Mendez	Alaminos City NHS, Alaminos City
5th	Phytoremediation Activity of Duckweed ( <i>Lemnoideae</i> ) Aqueous Extract to Fish Ponds	Travis Darelle M. Ross Coach: Cesar A. Ramirez, Jr.	Mapandan NHS, Pangasinan 1



Flores St., Catbangan, City of San Fernando, La Union

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DepEd Region I | [region1@deped.gov.ph](mailto:region1@deped.gov.ph) | [www.depedro1.com](http://www.depedro1.com)

5 <sup>th</sup>	Effectiveness of Madre de Agua ( <i>Trichanthera gigantea</i> ) Leaves As A Main Ingredient In Chicken Feed Production	James Fane A. Almazan Wesley A. Batara Coach: Lenor M. Tunac	Ilocos Norte NHS, Laoag City
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**\*Best Display Board-Life Science-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Antibacterial Property of Achiote ( <i>Bixa Orellana</i> L.) Seeds Extract And Painted Nettle ( <i>Coleus blumei</i> B.) Leaves Extract Against <i>Streptococcus pneumoniae</i>	JD Reyman M. Reynaldo Jadha Miel L. Arellano Andrea B. De Francia Coach: Bernard G. Mendez	Alaminos City NHS, Alaminos City

**\*Best Presenter-Life Science-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Adaptation of <i>Pseudomonas Putida</i> on Copper in Terms of Growth and Degradation of Plastic	Aleona Fe DG. Soriano Glizel Nicole G. Soria Quizha Reyshanie A. Brigola Coach: Gloria Magalong	Bayambang NHS, Pangasinan 1

**c.) Physical Science-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Interfacial Solar Evaporation with Thermoelectric Generation and Carnonized Water Hyacinth ( <i>Eichhornia crassipes</i> ) As Photothermal Conversion	Angel Marianne C. Tigno Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1
2 <sup>nd</sup>	Performance of Ground Dried Foliar Tissue of Water Sprite ( <i>Ceratopteris thalictroides</i> Linnaeus Brongn.) as Bio-Adsorbent For Lead Contaminated Freshwater	Braedan Jedrick H. Paguirigan Coach: Jerome Marquez	Regional Science High School for Region 1, La Union
3 <sup>rd</sup>	Renewable Energy Harnessing Method Using Bamboo Grass Nature Induced Motion	Ralph Vincent P. Reyes	Ilocos Sur NHS, Vigan City
4 <sup>th</sup>	Bioenergy Generation of Microbial Fuel Cell From Agno River Water And Sediment	Melvelyn L. Magat Coach: Fe Anne Thea V. De Guzman	Bautista NHS, Pangasinan 2

**\*Best Display Board-Life Science-Individual**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Therapeutic Potential of Cantaloupe ( <i>Cucumis melo</i> var. <i>cantalupensis</i> ) and Pineapple ( <i>Ananas comusus</i> ) Rind Chewing Candy as a Neurotransmitter Agent	Kimberly Capuno Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City

**\*Best Presenter-Life Science-Individual**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	OXYRIZON: A Novel Biostimulant In Enhancing Crop Resilience of Onion ( <i>Allium cepa</i> . L.) In Waterlogged Clay Soil	Adrian Q. Azada Coach: Anna Mae T. Valdez	Regional Science High School for Region 1, La Union

**b.) Life Science-Team**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Adaptation of <i>Pseudomonas Putida</i> on Copper in Terms of Growth and Degradation of PLastic	Aleona Fe DG. Soriano Glizel Nicole G. Soria Quizha Reyshanie A. Brigola Coach: Gloria Magalong	Bayambang NHS, Pangasinan 1
2 <sup>nd</sup>	Anti-angiogenic Properties of Algae ( <i>Sargassum polycystum</i> ) And Lagundi ( <i>Vitex negundo</i> )	Chloie Nicole P. Tolentino Rey Alfred S. Quiam Sophia D. Ragudos Coach: Bernard G. Mendez	Alaminos City NHS, Alaminos City
3 <sup>rd</sup>	Hydration Kinetics and Proximate Analysis of Taro <i>Colocasia esculenta</i> Stalk Enriched Noodles (TSEN)	Andrea Leigh M. De la Cruz Franchesca Pauleen S. Ganotisi Micah Ysabelle Sacro Coach: Sheryle V. Hilario	Solsona NHS, Ilocos Norte
4 <sup>th</sup>	The Effectiveness of Deacetylated Tahong ( <i>Perna viridis</i> ) Shells on the Shelf-Life of Mango ( <i>Mangifera indica</i> ) Fruits	Vissia Vian D. Mercado Keisha Margareth I. Yere Allyza Gayle R. Turda Coach: Maricel I. Remolacio	Sinait NHS, Ilocos Sur

5 <sup>th</sup>	The Biopotency of Coconut (Cocos nucifera Linn) Shell Ash Containing Silica Nanoparticles (nano-SiO <sub>2</sub> ) As A Material In The Production of Concrete Hollow Block	Adrienne Ysabelle S. Coloma Coach: Romalyn R. Yago	Sinait NHS, Ilocos Sur
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Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Interfacial Solar Evaporation with Thermoelectric Generation and Carnonized Water Hyacinth (Eichhornia crassipes) As Photothermal Conversion	Angel Marianne C. Tigno Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1

**d.) Physical Science-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Banana (Musa acuminata) Peels And Coconut (Cocos nucifera) Husk Biochar For Nitrate And Phosphate Adsorption	Charly David T. Manuel Angel Kyle E. Estrada Aidyrem Grace O. Ravarra Coach: Bernard G. Mendez	Alaminos City NHS, Alaminos City
2 <sup>nd</sup>	Project BBD: Shell-Aided Clay Stabilization for Sustainable Artificial Coral Reef	Charis Mea V. Montoya Harlez Uno L. Macaraeg Miguel Kate Angelo T. Molina Coach: Alyssa Mae E. Seco	Dagupan City NHS, Dagupan City

3 <sup>rd</sup>	Leachate Reduction Using Tambo Grass ( <i>Phragmites vulgaris</i> ) And False Birds of Paradise ( <i>Heliconia rostrata</i> ) for Sanitary Landfills	Jescelie C. Estrada Goodwill A. Hernaez Clark Kent I. Cuaton Coach: Bernard F. Mendez	Alaminos City NHS, Alaminos City
4 <sup>th</sup>	Ara-Green Diesel: The Potential Of Aragan ( <i>Sargassum muticum</i> ) Seaweed As Biofuel	Norjanah C. Natangcop Pristine Jaele L. Arellano Aivan Nikholai S. Ruiz Coach: Lenor M. Tunac	Ilocos Norte NHS, Laoag City
5 <sup>th</sup>	Scaloplast: The Potential Of Nile Tilapia ( <i>Oreochromis niloticus</i> ) Fish Scales As An Alternative Biodegradable Plastic Material	Christine Claire P. Bringas Geanne Fritz M. Dela Cruz Raza Marith'e A. Matudan Coach: Kristine Joy A. Mamasig	Ilocos Norte NHS, Laoag City

**\*Best Display Board-Physical Science-Team**

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**e.) Robotics & Intelligent Machines-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Linaw: Solar Powered Arduino-Based Turbidity Monitoring Device Against Oil Spills	Gabriel Vandale V. Castro Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1

2 <sup>nd</sup>	Nutrient Film Technique Farming Through Solar-Powered Systems	Thamara S. Balino Coach: Vishia A. Gantala	Sarrat NHS, Ilocos Norte
3 <sup>rd</sup>	INTRADEC: Arduino-Based Intoxicated Public Transportation Driver Detection Device With IoT Connection	Antonio W. Bonzo, Jr. Coach: Kris Cristhopher C. Dela Cruz	Alaminos City NHS, Alaminos City
4 <sup>th</sup>	Development of Machine Learning Based AI Model for Illegal Logging Detection	Pierre Benedict L. Serquiña Coach: Noli A. Esmeña	Tayug NHS, Pangasinan 2
5 <sup>th</sup>	Project FISALS: Arduino-Based Programmed Fire And Smoke Alarm System Equipped With SMS Blaster And Smart ID	Aaron Jay S. Garcia Coach: Aurelia S. Garcia	Regional Science High School for Region 1, La Union

**\*Best Display Board-Robotics & Intelligent Machines-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Nutrient Film Technique Farming Through Solar-Powered Systems	Thamara S. Balino Coach: Vishia A. Gantala	Sarrat NHS, Ilocos Norte

**\*Best Presenter-Robotics & Intelligent Machines-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Linaw: Solar Powered Arduino-Based Turbidity Monitoring Device Against Oil Spills	Gabriel Vandale V. Castro Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1

**f.) Robotics & Intelligent Machines-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	LI-DET: Life Under Rubble Detector With IoT Capabilities	Thyronjay Palazo Hugh Spence Sas Ram Allen Ranches Coach: Kris Cristhopher C. Dela Cruz	Alaminos City NHS, Alaminos City
2 <sup>nd</sup>	BEEWISE: A Bioacoustic-Driven Machine Learning Model With IoT Enabled Environmental Sensing	Kean Henderson S. Tan Waylan Kantrel B. Guiang Gerald C. Dela Cruz Coach: Jake Cassey Sugui	Ilocos Norte NHS, Laoag City

3 <sup>rd</sup>	Nitroptical Meter (Nitrogen Device Using Optical Transducer): A Measuring Device For Nitrogen Levels In Soils	Arianne May C. Arguelles Olwyn Jaeleah D. Landingin Rinoa Kierstyn N. Radovan Coach: Francisco C. Dacoco	Dagupan City NHS, Dagupan City
4 <sup>th</sup>	AQUAGUARDIAN PRO: An Arduino-Based Water Temperature Cooler Robot with Internet of Things (IoT) Control System	Rodel Vincent L. Robiñol, Jr. Brix Jenaro M. Pati Adrian Ceasar B. Alconis Coach: Kniethel R. Rabara	Ilocos Sur NHS, Vigan City
5 <sup>th</sup>	E-HARVEST: Electronic-based Hydration Analysis and Real-Time Vegetation Enhancement and Sustenance Tool	Yunice Angel Mae C. Fariñas John Hershey S. Adaoag Gabrielle Essex Shawn L. Vergara Coach: Jayson D. Adena	San Nicolas NHS, Ilocos Norte

**\*Best Display Board-Robotics & Intelligent Machines-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BEEWISE: A Bioacoustic-Driven Machine Learning Model With IoT Enabled Environmental Sensing	Kean Henderson S. Tan Waylan Kantrel B. Guiang Gerald C. Dela Cruz Coach: Jake Cassey Sugui	Ilocos Norte NHS, Laoag City

**\*Best Presenter-Robotics & Intelligent Machines-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BEEWISE: A Bioacoustic-Driven Machine Learning Model With IoT Enabled Environmental Sensing	Kean Henderson S. Tan Waylan Kantrel B. Guiang Gerald C. Dela Cruz Coach: Jake Cassey Sugui	Ilocos Norte NHS, Laoag City

**g.) Science Innovation Expo-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Solar Powered Farm Crops Pest Catching Machine Using Photon	John Christopher T. Rosario Coach: Amador F. Du, Jr.	Labrador NHS, Pangasinan 1
2nd	Improvised Energy Harvesting Door Mat Equipped With Piezoelectric Technology	Peter John N. Haboc Coach: Rowel P. Lucina	Regional Science High School for Region 1, La Union
3rd	Bioelectricity Production via Microbial Fuel Cell Using Food Wastes	Marianne Anthonette C. Coquia Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1
4th	BES (Bottle Exchange System): An Arduino-based Reverse Vending Machine	Theo Jae Bernal Coach: Maria Cristina Urolaza	Sinait NHS, Ilocos Sur
5th	Coco Lumber Saw Dust and Bamboo Shaving as Briquettes	John Lemul R. Laxamana Coach: Mark Angelbert B. Dulay	Tayug NHS, Pangasinan 2

**\*Best Display Board-Science Innovation Expo-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Improvised Energy Harvesting Door Mat Equipped With Piezoelectric Technology	Peter John N. Haboc Coach: Rowel P. Lucina	Regional Science High School for Region 1, La Union

**\*Best Presenter-Science Innovation Expo-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Bioelectricity Production via Microbial Fuel Cell Using Food Wastes	Marianne Anthonette C. Coquia Coach: Gerald D. Soriano	Pangasinan NHS, Pangasinan 1

**h.) Science Innovation Expo-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Smart Solar Powered Portable Egg Incubator	Leona Carmela B. Valdez Ma. Jasmine Gabrielle Q. Santos Coach: Nina Joy M. Butac	Ilocos Norte NHS, Laoag City



2 <sup>nd</sup>	EMO-MSG: Electric Motor Operated Maize Sheller and Grinder	Jarnel Dave L. Hermosura Diana Mary S. Ledda Coach: Jerome Marquez	Regional Science High School for Region 1, La Union
3 <sup>rd</sup>	Bamboo Stripping Device for Bilao-Making	Irish Mae Dianne D. Cabuang John Arvin F. Datuin Ma. Eloisa B/. Peralta Coach: Jaime D. Dela Rosa, Jr.	Turac NHS, San Carlos City
4 <sup>th</sup>	Mechanized Fanning For Grillers Using Thermoelectric Generator As Power Source	Venz Leomarc C. Estepa Charles Jessie s. Agbanlog Fergus Humphrey M. Parinas Coach: Harold Gray T. Padilla	Urdaneta City NHS, Urdaneta City
5 <sup>th</sup>	ALWAD: Automated Landslide Detector And Warnig Device	Ruth Eloisa S. Panlilio Sage Margarette C. Abando Kathrine Mae D. Cervantes Coach: Eleazar B. Naguid	Don Eulogio De Guzman Memorial NHS, La Union

**\*Best Display Board-Science Innovation Expo-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Bamboo Stripping Device for Bilao-Making	Irish Mae Dianne D. Cabuang John Arvin F. Datuin Ma. Eloisa B/. Peralta Coach: Jaime D. Dela Rosa, Jr.	Turac NHS, San Carlos City

**\*Best Presenter-Science Innovation Expo-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	EMO-MSG: Electric Motor Operated Maize Sheller and Grinder	Jarnel Dave L. Hermosura Diana Mary S. Ledda Coach: Jerome Marquez	Regional Science High School for Region 1, La Union

**i.) Mathematics & Computational Sciences-Individual**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Shortcut Formula For The Sum Of The Diagonals Of A Number Spiral By 9 As A Starting Point	Sachio S. Tsuji Coach: Mark Angelbert B. Dulay	Tayug NHS, Pangasinan 2
2nd	Exploring The Sums Of Two Consecutive Square Numbers	Fritchzel Olivo Coach: Arnel F. Baradi	Union Christian College/ Pagudpud Integrated School, San Fernando City
3rd	Designing A Time -Efficient And Structed Evacuation Route	Aubrey Marie R. Garcia Coach: Pastor V. Yabot, Jr.	Ilocos Sur NHS, Vigan City
4th	No Heights, No Problem: Solving For The Area Of Isosceles Trapezoids Via Special Angles And Trigonometry	Ramel T. Tungpalan Coach: Carl Michael P. Bandong	Pangasinan NHS, Pangasinan 1
5th	Mathematical Modelling Of Triglyceride Levels Of Hyperlipidemia-Induced Guinea Pigs (Cavia Porcellus) Treated With Kalimbuniog (Glycosmis Pentaphylla) Leaf Extract	Juan Rafael A. Sablay Coach: Patrick John Concepcion	Sinait NHS, Ilocos Sur

**\*Best Display Board-Mathematics & Computational Sciences-Individual**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	No Heights, No Problem: Solving For The Area Of Isosceles Trapezoids Via Special Angles And Trigonometry	Ramel T. Tungpalan Coach: Carl Michael P. Bandong	Pangasinan NHS, Pangasinan 1

**\*Best Presenter-Mathematics & Computational Sciences-Individual**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Mathematical Modelling Of Triglyceride Levels Of Hyperlipidemia-Induced Guinea Pigs (Cavia Porcellus) Treated With Kalimbuniog (Glycosmis Pentaphylla) Leaf Extract	Juan Rafael A. Sablay Coach: Patrick John Concepcion	Sinait NHS, Ilocos Sur

**j.) Mathematics & Computational Sciences-Team**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Palindromic Pattern Of The Quotient Of The Sum Of All The Permutations Of Any Three Terms And Their Sum In A Consecutive Arithmetic And Fibonacci Sequence	Joross P. Lamarca Peter John N. Haboc Ian Chris L. Semillano Coach: Imelda N. Canumay	Regional Science High School for Region 1, La Union
2nd	Finding The Maximum Number Of The Smallest Polygons Formed On A Triangular Array Of Points:A Mathematical Investigation	Princess Mhyca B. Silapan Eunice R. Maraña John Sean N. Gacayan Coach: Anita L. Aspillaga	La Union NHS, San Fernando City
3rd	Geometric Wonders: The Mensuration Of Pascal's Pyramid	James Ivan L. Lilloraza Chelsy Mae P. Mercado Jean Josef D. Tolosa Coach: Roque A. Paican	Mapandan NHS, Pangasinan 1
4th	Mathematical Investigation On A Particular Binakol Design	Moanah Irish V. Buguina Dreyzen P. Ganotisi Janella Phylicia Matias Coach: Harvey O. Balicoco	Sarrat NHS, Ilocos Norte
5th	Mathematical Modelling Of The Evidence In-Vitro Hemolytic And Cytotoxic Activities Of Carbonated Drink	Mark Ashley I. Lived Anjoe J. Sistoza Coach: Nina May P. Arroccena	Sinait NHS, Ilocos Sur

**\*Best Display Board-Mathematics & Computational Sciences-Team**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student-Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Mathematical Investigation On A Particular Binakol Design	Moanah Irish V. Buguina Dreyzen P. Ganotisi Janella Phylicia Matias Coach: Harvey O. Balicoco	Sarrat NHS, Ilocos Norte

**\*Best Presenter-Mathematics & Computational Sciences-Team**

<b>Rank</b>	<b>Title of Investigatory Project</b>	<b>Student- Researcher/s and Coach</b>	<b>School / SDO</b>
1st	Palindromic Pattern Of The Quotient Of The Sum Of All The Permutations Of Any Three Terms And Their Sum In A Consecutive Arithmetic And Fibonacci Sequence	Joross P. Lamarca Peter John N. Haboc Ian Chris L. Semillano Coach: Imelda N. Canumay	Regional Science High School for Region 1, La Union

2. First place investigatory projects of the ten contested events shall be the Region 1 entries in the National Scientific Review Committee (NSRC) Evaluation/ Screening for the 2023-2024 National Science and Technology Fair. The deadline of submission of writeups (both softcopies and hardcopies) shall be on December 20, 2023 at the Bureau of Curriculum Development (BCD), DepEd Central Office, Pasig City.

3. For information and dissemination.

For the Regional Director:

**RHODA T. RAZON**  
Director III

Encl.: None

References: RM 1225, s. 2023, and RM 1290, s. 2023

To be indicated in the Perpetual Index

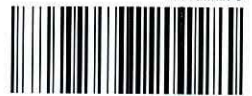
Under the following subjects:

SCIENCE                      MATHEMATICS      INNOVATIONS  
WINNERS OF RSTF                      ROBOTICS

CLMD/jdcjr/rap/RMCLMD/WinnersOfThe2023RSTF  
December 13, 2023



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