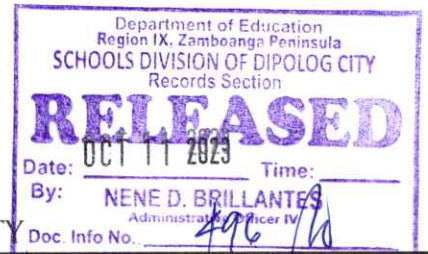




Republic of the Philippines
Department of Education
REGION IX – ZAMBOANGA PENINSULA
SCHOOLS DIVISION OF DIPOLOG CITY



October 09, 2023

DIVISION MEMORANDUM

No. 496, s. 2023

REGIONAL CLIMATE CHANGE CARAVAN 2023

To: ASST. SCHOOLS DIVISION SUPERINTENDENT
CHIEF, CURRICULUM IMPLEMENTATION DIVISION (CID)
CHIEF, SCHOOLS GOVERNANCE AND OPERATIONS DIVISION (SGOD)
ALL ELEMENTARY SCHOOL PRINCIPALS/HEADS
ALL SECONDARY SCHOOL PRINCIPALS/HEADS
SELECT DIVISION PERSONNEL
DIVISION DRRM COORDINATOR
THIS DIVISION
ALL OTHERS CONCERNED


1. In reference to Regional Memo No. 483, s. 2023 the **2023 Regional Climate Change Caravan (RCCC)** will be held at **Explore Dipolog, Dipolog Boulevard**, Brgy Miputak, Dipolog City on **October 18, 2023 (05:00PM to 09:00PM)**.
2. With this, the following are requested to be present in this event with Havana Attire or Any White Tops as the dress code:
 - a. Schools Division Superintendent
 - b. Asst. Schools Division Superintendent
 - c. SGOD Chief
 - d. CID Chief
 - e. All Elementary & Secondary School Principals/Heads
3. Moreover, the Schools Division of Dipolog City, in collaboration with the Local Government Unit (LGU) of Dipolog City, will host the aforementioned event. As such, the following are identified as members of the Technical Working Group and Program Committee (see enclosure for specific roles):
 - a. Nur N. Hussien
 - b. Jesel B. Chiu
 - c. Andrew Homil G. Elumbaring
 - d. Alan D. Chiu
 - e. Adrian Benedict F. Castelo
 - f. Marie C. Refugio
 - g. Marie Antoinette F. Nazareth
 - h. Gina T. Caermare
 - i. Andrew Homil G. Elumbaring
 - j. Mariel Gwen L. Abarca
 - k. Marilyn G. Barabso
 - l. Sarah Mae C. Aranas
 - m. Genevieve Q. Bermudez
 - n. Ellyn G. Nonong
 - o. Mary Catherine G. Tabudlong



Address: Purok Farmers, Olingan, Dipolog City
Email: dipolog.city@deped.gov.ph
Website: www.depeddipolog.net
Facebook: DepEd Tayo – Division of Dipolog City

- p. Ronillo S. Yarag
- q. Engr Christopher Ace B. Bael
- r. Rambelle C. Flores
- s. Dr. Jayrick C. Balagbagan
- t. Emmanuel F. Bacaltos
- u. Dr. Clees Paul Z. Tabiliran
- v. Gina Fe M. Ramos
- w. Jessani E. Quirante
- x. Crispo V. Gahisan
- y. Neil Nonato F. Sebastian
- z. Luisiano Murro, Jr.
- aa. Jeffrey Bolingkit

- 4. Refer to Enclosure for the Concept Note, Indicative Program and Event/Program Committees.
- 5. For questions or clarifications, kindly contact ALAN D. CHIU, the Division DRRM Coordinator, at 09070547070.
- 6. Immediate dissemination of this Memorandum is highly desired.


MA. LIZA R. TABILON, EdD., CESO V
Schools Division Superintendent
Office of the Schools Division Superintendent

Encl.: As stated

Reference: none

To be indicated in the Perpetual Index
under the following subjects:

SGOD, DRRM
RCCC

Schools
CCAM

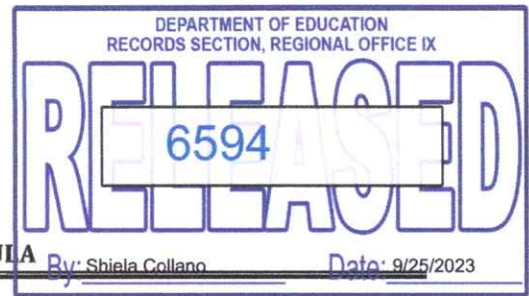
ADC/20231009-DM-RCCC2023
October 09, 2023



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Republic of the Philippines
Department of Education
 REGIONAL OFFICE IX, ZAMBOANGA PENINSULA



Office of the Regional Director

September 22, 2023

REGIONAL MEMORANDUM
 NO. 483, S. 2023

2023 REGIONAL CLIMATE CHANGE CARAVAN (RCCC)

To: **Schools Division Superintendents/OICs**
Assistant Schools division Superintendents/OICs
Functional Division Chiefs
Division DRRM Coordinators
All Others Concerned
 This Region

1. The Department of Education through the Disaster Risk Reduction and Management Service (DRRMS), in its commitment to climate action and as mandated by the Republic Act 9729, otherwise known as the Climate Change Act of 2009 provides, among others **the role of the Department of Education (DepEd) in integrating in its plans, programs, policies and activities the concepts of climate change.**
2. The Regional Climate Change Caravan is a timely and relevant initiative that aims to promote climate change awareness, education, and action in local communities where educational institutions are located. It is a collaborative effort that seeks to engage stakeholders from different sectors and create a network of advocates for climate action.
3. Relative to this, the **2023 Regional Climate Change Caravan (RCCC)** shall be held on **October 18, 2023**, from **5:00pm to 9:00pm** at **Explore Dipolog, Dipolog Boulevard, Brgy. Miputak, Dipolog City.**
4. Please refer to the enclosure for the indicative program and the expected participants to the aforementioned event.
5. The first meal will be served at lunch on October 18, 2023, and the last meal will be breakfast on October 19, 2023. Accommodation will be provided on October 18, 2023 for select participants.
6. Travelling and incidental expenses shall be charged against local and RCCC funds downloaded to selected SDOs, subject to usual government accounting and auditing rules and regulations.
7. Official attire for this event will be Havana or Any White Tops.
8. For your information, guidance and compliance.


DR. RUTH L. FUENTES, CESO IV
 Regional Director



Address: President Corazon C. Aquino Regional Government Center, Balintawak, Pagadian City 7016
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 09164336191
 09472096474





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ORD-ESSD-M-JULY27-002
 MEGA

ENCLOSURE: REGIONAL CLIMATE CHANGE CARAVAN CONCEPT NOTE AND INDICATIVE PROGRAM

REGIONAL CLIMATE CHANGE CARAVAN (RCCC) 2023

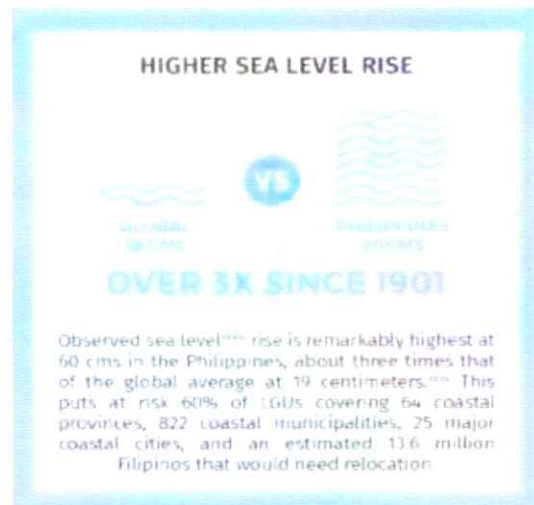
Explore Dipolog, Dipolog Boulevard, Barangay Miputak, Dipolog City
 October 18, 2023

(Adopted from Project **E.A.R.T.H.:** **E**nvironmental **A**daptation and **R**esiliency against **T**hermal-expansion and **H**eat-island effect)

I. Rationale

The warming of Earth is primarily due to accumulation of heat-trapping greenhouse gases, and more than 90 percent of this trapped heat is absorbed by the oceans. As this heat is absorbed, ocean temperatures rise and water expands. This **thermal expansion** contributes to an increase in global sea level. Temperature measurements of the sea surface, taken by ships, satellites and drifting sensors, along with subsurface measurements and observations of global sea-level rise, have shown that the warming of the upper ocean caused sea level to rise due to thermal expansion in the 20th century. Using measurements from Argo profiling floats, we know this warming has continued, causing roughly one-third of the global sea-level rise observed by satellite altimeters since 2004 (NASA Sea Level Change Team, n.d.).

Changes in Global Mean Sea Level (GMSL)¹ have been measured by satellite altimeters for the past 27 years. With the launch of the Sentinel-6/Michael Freilich satellite in 2020, this record will soon surpass three decades. The rate of GMSL rise from 1993 to present has been measured at 3.3 millimeters per year, and there are indications that the rate of GMSL rise has increased during the satellite altimeter record. Other systems in the sea-level observation network provide estimates of the individual process contributing to GMSL rise. The GRACE and GRACE-FO satellites measure mass-driven changes in GMSL associated with ice melt and changes in land water storage. The Argo profiling floats measure temperature and salinity changes in the global ocean, and provide an estimate of thermosteric GMSL change. Combining the GMSL estimates from GRACE/GRACE-FO and Argo and then comparing to GMSL from satellite altimeters allows us to check our understanding of the contributors to GMSL and see if the "global sea level budget" can be closed (NASA Sea Level Change Team, n.d.)



Source: Climate Change and the Philippines Executive Brief 2018-01

The map below shows that **Region 9 is categorized under Clusters VI and XI** where the identified risk is **“Sea Level Rise”** as one of the effects of climate change. This map, from a report by the Philippine Department of Environment and Natural Resources, shows how other specific geographical factors contribute to its particular vulnerability. Regional wind patterns, for example, can worsen the risk posed by extreme rainfall events. These are the five different risk factors it identifies: a rise in sea levels, extreme rainfall events, extreme heating events, increased ocean temperatures and a disturbed water budget. Given the Philippines'

¹ Global mean sea level provides an integrative measure of the state of the climate system, encompassing both the ocean and cryosphere (ice covered portions of Earth), and it can be viewed as an important indicator of what is happening to the climate in the present and what may happen in the future (NASA Sea Level Change Team, n.d.).



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vast shorelines and built-in geographic susceptibility, any one of these could be disastrous. (Fisher, 2013)

PHILIPPINE EXPOSURE MAP ON CLIMATE CHANGE

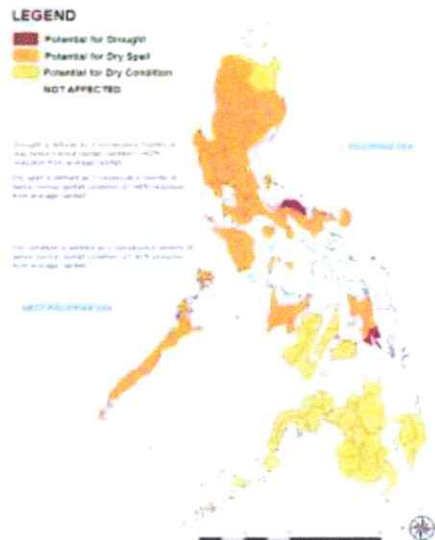


On the other hand, structures such as buildings, roads, and other infrastructure absorb and re-emit the sun's heat more than natural landscapes such as forests and water bodies. Urban areas, where these structures are highly concentrated and greenery is limited, become "islands" of higher temperatures relative to outlying areas. These pockets of heat are referred to as "heat islands." **Heat islands** can form under a variety of conditions, including during the day or night, in small or large cities, in suburban areas, in northern or southern climates, and in any season (United States Environmental Protection Agency, n.d.).

Source: <https://www.washingtonpost.com/news/worldviews/wp/2013/11/12/this-map-shows-why-the-philippines-is-so-vulnerable-to-climate-change/>

Heat islands are usually measured by the temperature difference between cities relative to the surrounding areas. Temperature can also vary inside a city. Some areas are hotter than others due to the uneven distribution of heat-

OUTLOOK FOR AREAS POTENTIAL FOR DRY CONDITION, DRY SPELL AND DROUGHT end of December 2023



Based on July-December 2023 Forecast Rainfall

OUTLOOK OVER DIFFERENT PROVINCES By End of December 2023

AREAS	DRY CONDITION	DRY SPELL	DROUGHT
LUZON	(15) ABRA, BATAVES, LAGAYAN	(32) ABRA, BENGUET, IFUGAO, KALINGA, APAYAO, MOUNTAIN PROVINCE, GUROS NORTE, GUROS SUR, LAUNION, PANGASINAN, SABELA, PULICA, ZAMBANGA, QUIRINO, BATAAN, BULACAN, NUEVA ECUA, PAMPUNGA, TARIAC, ZAMBALES, METROMANILA, BATANGAS, LAGUNA, RIZAL, QUEZON, MARICUQUE, OCCIDENTAL MINDORO, ORIENTAL MINDORO, ROMBLON, PALAWAN, SPRATLY ISLANDS, CAMARINES SUR, CATANDUANES	(11) CAMARINES NORTE
VISAYAS	(5) NEGROS OCCIDENTAL, NEGROS ORIENTAL, BOHOL, CEBU, SIKULUD	(4) ANTIQUE, GUIMARAS, ILEDO, LEYTE	(1) SOUTHERN LEYTE
MINDANAO	(20) ZAMBONGA DEL NORTE, ZAMBONGA DEL SUR, DAVAO DEL SUR, DAVAO DEL NORTE, CAGAI, LANGAO DEL NORTE, MISAMIS OCCIDENTAL, MISAMIS ORIENTAL, DAVAO DEL SUR, DAVAO OCCIDENTAL, DAVAO ORIENTAL, SOUTH COTABATO, COTABATO, SULTAN KUDARAT, BAKILAN, MAGUINDANAO, LANAO DEL SUR, SULO, TAWI-TAWI	NONE	NONE
TOTAL	28	36	2

NOTE: AGUSAN DEL NORTE, DINAGAT ISLANDS, SURIGAO DEL NORTE and SURIGAO DEL SUR - Potential for Dry Spell at the end of October.

absorbing buildings and pavements, while other spaces remain cooler as a result of trees and greenery. These temperature differences constitute intra-urban heat islands. In the heat island effect diagram, urban parks, ponds, and residential areas are cooler than downtown areas. In general, temperatures are different at the surface of the earth and in the atmospheric air, higher above the city. For this reason, there are two types of heat islands: surface heat islands

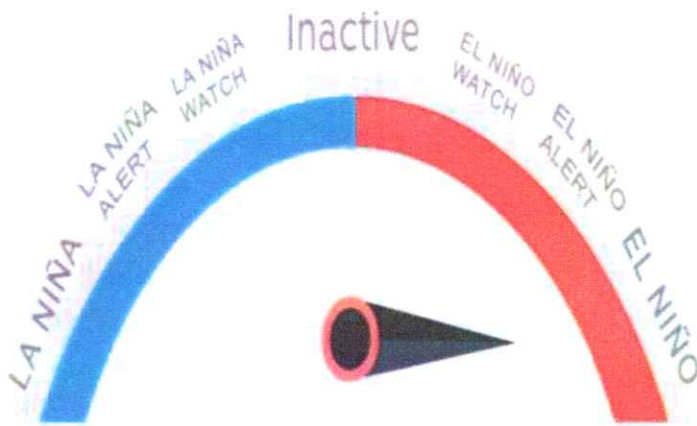




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and atmospheric heat islands. These differ in the ways they are formed, the techniques used to identify and measure them, their impacts, and to some degree the methods available to cool them (United States Environmental Protection Agency, n.d.).

In the month of May, Dipolog City alone has recorded the **highest heat index of 48°C and there were 8 incidents where it reached 44°C to 46°C**. Whereas the recent weather outlook from DOST-PAGASA, Zamboanga Peninsula will experience a Dry Spell by end of December 2023.



PAGASA ENSO Alert System Status

Moreover, per DOST-PAGASA El Nino Monitoring, “El Niño is present in the tropical Pacific and will persist until the first quarter of 2024, showing signs of strengthening in the coming months. (updated 04 July 2023)”

II. Objectives

Rising mean and increasingly extreme sea level threaten coastal zones through a range of coastal hazards including (i) the permanent submergence of land by higher mean sea levels or mean high tides; (ii) more frequent or intense coastal flooding; (iii) enhanced coastal erosion; (iv) loss and change of coastal ecosystems; (v) salinization of soils, ground and surface water; and (vi) impeded drainage (H.-O. Pörtner, 2019).

On the other hand, elevated temperatures from heat islands can affect a community’s environment and quality of life in multiple ways; such as: (i) increased energy consumption; (ii) elevated emission of air pollutants and greenhouse gases; (iii) compromised human health and comfort; and (iv) impaired water quality (US EPA, n.d.).

Though, the impacts enumerated above may not be present or currently experienced in Dipolog City, but these poses serious threats. Thus, this project will try to establish actions and adaptation initiatives with the objective of **Reducing the impact or effect of Climate Change, specifically on thermal expansion and urban heat island, on learners, personnel, schools and its community.**

III. Target Audience

Expected participants for this event are at least 150 individuals coming from the following offices:

1. LGU Dipolog (20 participants)
 - a. City Mayor’s Office (5 participants)
 - b. Office of the Strategy Management (2 participants)
 - c. City Environment and Natural Resources Office (4 participants)
 - d. City DRRM Office (5 participants)
 - e. City Planning Office (2 participants)
 - f. City Social Welfare & Development Office (2 participants)





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2. 8 DepEd Division Offices² (10 x 7 = 70 participants)
 - a. Isabela City
 - b. Zamboanga City
 - c. Zamboanga Sibugay
 - d. Zamboanga Del Sur
 - e. Pagadian City
 - f. Zamboanga del Norte
 - g. Dapitan City
3. DepEd Regional Office IX³ (12 participants)
4. DepEd Central Office – Disaster Risk Reduction and Management Services⁴ (3 participants)
5. DepEd Dipolog City Division
 - a. Division Personnel⁵ (4 participants)
 - b. School Heads (47 school heads)
6. Office of the Civil Defense IX (2 participants)
7. Other Agencies, Offices and NGOs/CSOs (10 participants)
 - a. ChildFund Philippines
 - b. Dipolog Eco Club
 - c. TBD
 - d. TBD
 - e. TBD
8. Technical Working Group, Committees and Working Staff (50 participants)

Dress Code: Havana or Any White Tops

IV. Activity Flow and Program Guide

Date/Time	Activity	Venue	Responsible Person
October 17, 2023 (Wednesday)			
8:00AM	Pre-Event Conference and Preparation of TWG and Committees	DepEd Dipolog Training Center	TWG
October 18, 2023 (Thursday)			
12:00PM	Arrival of Participants * Lunch will be served also	DepEd Dipolog Training Center	TWG
	Settling down at billeting quarters	TBD	
Notes: <ul style="list-style-type: none"> • ZNNHS Turno Rondalla will serenade the audience while waiting for the opening program (instrumental only, environmental songs) • Table arrangement for cocktail dinner with presidential table • With LED Wall • Live Feed on Facebook Page 			
5:30PM	Sunset Viewing <i>(The participants will be called to sit down at their respective areas while watching the sunset;</i>	Explore Dipolog	Emcee

² 1 SDS, 1 SGOD Chief, 1 Div. DRRM, 1 YFC, 1 Sch. Adviser, 2 JHS Learners, 2 LGU Representatives, and 1 Driver (separate for host division – Dipolog City)

³ 1 RD, 1 ARD, 8 Chiefs, 1 Reg. DRRM, and 1 Driver

⁴ 1 DRRMS Director, 1 DRRMS Focal for R9, 1 DRRMS CCAM Focal

⁵ 1 SDS, 1 ASDS and 2 Chiefs





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Date/Time	Activity	Venue	Responsible Person
	<i>A narrative will be read by the emcee while watching the sunset with background music from the Rondalla)</i>		
6:00PM	RCCC Program	Explore Dipolog	
	Opening Ceremonies <ul style="list-style-type: none"> • National Anthem • Invocation • Dipolog City Hymn 	ZNNHS Turno Rondalla	
	Welcome Remarks	Ma. Liza R. Tabilon, EdD., CESO V Schools Division Superintendent DepEd Dipolog City Division	
	Opening Message	Dr. Ruth L. Fuentes, CESO V Regional Director Department of Education, Region IX	
	Inspirational Message	Hon. Darel Dexter T. Uy City Mayor Dipolog City	
	Photo Opportunities with VIPs and Keynote Speakers <i>(Note: Rondalla instrumental background music)</i>	Official Photo Documenter	
	<i>Note: Cocktail Finger food will be served</i>		
	Introduction of Keynote Speaker	Sheila Rose B. Apiag, J.D. Chief, ESSD DepEd RO-IX	
	Keynote Address: CCAM in the Department of Education	Atty. Christian E. Rivero, EdD Director IV, Disaster Risk Reduction & Management Services Department of Education	
	Awarding of Certificate and Token of Appreciation		
	Introduction of Keynote Speaker	Dr. Romeo M. Daligdig Chief, ASD DepEd RO-IX	
	Keynote Address: Climate Change in Disaster	Atty. Ruel S. Halanes Asst. Regional Director Office of Civil Defense IX	
	Awarding of Certificate and Token of Appreciation		
	Message of Support and Presentation of Dipolog City CCAM Initiatives	Mercedita Guerrero City Environment & Natural Resource Officer Dipolog CENRO	
	Acknowledgement of Partners and Participants Closing Remarks	Atty. Arvin L. Bonbon City DRRM Officer Dipolog CDRRMO	
	Presentation of Division and LGU CCAM Initiatives and Practices	Audio Visual Presentation	
	Cocktail Dinner will be served at the respective table		
	<i>Note: Rondalla will serenade the participants while having dinner</i>		
	End of Program		





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Date/Time	Activity	Venue	Responsible Person
Host/Emcee: Chris Rey VIII A. Herrera			
October 19, 2023 (Thursday)			
6:00AM	Breakfast will be served at the billeting quarters for remaining participants	Hotel	
7:00AM	Departure of participants		
9:00AM	Post-Activity Evaluation Conference of TWG and Committees	DepEd Dipolog Training Center	TWG

V. Event and Program Committees

Committee	Roles	In-Charge/ Persons Involved
Technical Working Group (TWG)	Serves as the ad hoc group who will work the preparatory activities	Nur N. Hussien Ma. Eden G. Aspiras Jesel B. Chiu Andrew Homil G. Elumbaring Alan D. Chiu Teodora M. Ortiz 1 CDRRMO Personnel 1 CENRO Personnel
Memo, Invites and Letters (MIL)	Prepares, designs, and forwards memo, invites and/or letters to identified personalities; Facilitates signing of documents	Ma. Eden G. Aspiras Jesel B. Chiu Adrian Benedict F. Castelo
Certificates	Prepares, designs, and forwards certificates to identified personalities; Facilitates signing of certificates; Facilitates issuance of Certificate of Appearances	Ma. Eden G. Aspiras Teodora M. Ortiz
Registration, Secretariat and Leis (Garland) (R&S)	Responsible for coordination and management of each activity related to the event. In-charge in the taking of attendance and registration of participants.	Marie C. Refugio Marie Antoinette F. Nazareth 1 CDRRMO Personnel
Program Director	Serves as the event manager	Nur N. Hussien
Floor Director	Ensures smooth flow of the scheduled activity per program flow	Alan D. Chiu
Backstage Director	Organize backstage areas for preparation of performers, presenters and/or speakers in coordination with the Floor and Program Director.	Gina T. Caermare
Media Coordinator	Social Media and Radio Stations	Cielbert E. Dondoyano, Jr. 2 CIO Personnel
Photo & Video Documentation	Ensures documentation of the event (before, during and after)	Cielbert E. Dondoyano, Jr. 2 CIO Personnel
Audio, Video, and Lights Coordinator (AVL)	Works with the video, lights and sounds operators; Ensures that files for presentation are ready and available during the event	Andrew Homil G. Elumbaring 3 GSO Personnel
Ushers and Usherettes	Escorts VIPs and Guests to their respective assigned tables; Guides participants to their respective tables	Mariel Gwen L. Abarca Marilyn G. Barabso Sarah Mae C. Aranas Genevieve Q. Bermudez





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Committee	Roles	In-Charge/ Persons Involved
		2 CDRRMO Personnel
Food and Beverages	Works with the caterers in ensuring availability and readiness of food as scheduled with respect to the number of participants (arrival of participants, during program, departure of participants)	Ellyn G. Nonong Mary Catherine G. Tabudlong 1 CDRRMO Personnel
Stage & Physical Arrangements	Works with the caterers in the setting-up of the tables and chairs; Works with CEO and GSO for the setting-up of stage; Plans route for the flow of people and vehicles	Ronillo S. Yarag Engr Christopher Ace B. Bael Ellyn G. Nonong Mary Catherine G. Tabudlong 1 GSO Personnel 1 CEO Personnel
Safety Team	Assess and identify potential hazards (e.g. fire, stampede, vehicular, etc.); Works with the local PNP for the security of the area	Rambelle C. Flores Dr. Jayrick C. Balagbagan Emmanuel F. Bacaltos 1 CDRRMO Personnel
Health & Emergency Team	Works with the local emergency team; Attends to health issues of participants at the different venues (DDTC and Explore Dipolog)	Dr. Clees Paul Z. Tabiliran Gina Fe M. Ramos Jessani E. Quirante 1 CDRRMO Personnel 1 CDRRMO Team (3 pax)
Billeting & Accommodation	Works with the hotel assigned for the respective participants; Ensure smooth transfer of participants from DDTC to Hotel (vice-versa); Coordinates with transportation & logistics for the transfer of participants	Crispo V. Gahisan Neil Nonato F. Sebastian
Transportation & Logistics	Works with designated vehicles in the transfer of participants to hotel and to venue (vice-versa)	Luisiano Murro, Jr. Jeffrey Bolingkit 2 LGU Drivers

