**APPENDIX XVI**

**Report on activities of Working Group on Disaster Risk Reduction (WGDRR) of TC in 2016**

**1. Introduction**

In 2016, Working Group on Disaster Risk Reduction (WGDRR) implemented a series of projects and conducted the DRR annual meeting to share the information related to DRR according to the plan derived from 48th TC Session. This report was drafted based on the outcome of WGDRR parallel meeting at 11th IWS, which was held on 24-27 October 2016 in Cebu, Philippines.

The report will show the main progress and achievement on DRR component due to the the great cooperation and effort from the Members in the past year. It will also cover the status of implementation of the projects 2016 and the plan of 2017 for WGDRR including the AOPs and budget allocation for TCTF.

**2. Members**

|  |  |
| --- | --- |
| *Chair* | Mr. Shim, Jaehyun (Republic of Korea) |
| *Vice Chairs* | Mr. Oh, Keumho  Ms. Leong, Fong Peng |
| *Members* | No name provided by (Cambodia)  Mr. Wang Yawei (China)  Mr. Kim Choi (DPR Korea)  Ms. Sandy M.K. Song (Hong Kong)  Mr. Junji Moriwaki, Ms. Natsuko Sekiguchi,  Ms. Setsuko Saya, Mr. Yoshifumi Komada (Japan)  Mr. Bounteum Sysophanthavong (Lao PDR)  Mr. Ho Su Hon (Macao)  Ms. Dat’Zaitun Ab Samad (Malaysia)  Ms. Lenie D. alegre (Philippines)  Mr. Chihun Lee (Republic of Korea)  Mr Cheong Wee Kiong (Singapore)  Mr. Chainarong Vasanasomsith (Thailand)  Ms. Genevieve Miller (USA  Mrs. Dam Thi Hoa (Vietnam) |

**3. The major progresses of activities on DRR component of Members in 2016**

By the coordination of TCS and support from all Members, WGDRR successfully implemented the action plan in 2016, which was endorsed at 48th TC Session. The status of the progress of the project and activities of WGDRR as bellows;

**The 11th WGDRR Annual Meeting:** The 11th WGDRR Annual workshop with the theme of “Disaster Management Experience Sharing” was fruitfully held on 24-27 May 2016 in Ulsan, Republic of Korea with the kind contribution from National Disaster Management Institute (NDMI). This meeting was the first time to be held in Ulsan, as NDMI moved their headquarters from Seoul to Ulsan. Additionally, it was the first time that an invitation was extended to AWG Members to join the Annual Workshop with the generous offering from NDMI. Taking this opportunity, AWG Members held a meeting to discuss the issues related to TC’s development and gave their insightful comments to WGDRR. Around 30 participants attended the Workshop from 8 member countries, as well as AWG and TCS Members.

**TCDIS**: In 2016, NDMI is working for upgrading the functions of TCDIS and the design of TCDIS website. The upgrade of TCDIS includes new function that users could get the site information from the existing CCTV. Also, it includes auto-reporting function. This function could provide the report, which consists of the results of similar typhoon research.

**Expert Mission:** The expert mission was successfully conducted in China to share the updated information on the operation of TCDIS and exchange information regarding the new technology and policy related to the field of DRR among NDMI, NCDRR, and CMA.

**Installation of Early Warning and Alert System in Member Countries:** dispatched the experts to Lao PDR for installing the Automatic Rainfall Warning System (ARWS) and Flash Flood Alert System (FFAS) in Vang Vieng Province in Lao PDR. NDMI will also install FFAS and ARWS in Vietnam at the end of this year. The project will be continued in 2017 for Lao PDR and Vietnam and NDMI encourage the participation of other member countries in this project.

**iCowin Project:** Regarding the iCowin project that aims to raise public awareness of weather hazards and climate change through installation of community weather station: the system has been installed in Mindanao Island in the Philippines and Guam (2012) and in Vietnam (2015) respectively. Though the training workshops in HK were successfully implemented, some Members did not successfully implement the project. There were various reasons, including those which were related to local data communications constraints that would need assistance from local instrument experts even though advice could be provided by HKO*.(e.g.* Lao PDR sent representative to attend training and got the equipment from HK in 2014 but the installation has not been started. HK suggested that Lao PDR could send instrument experts to HK to learn about the installation and data communication issues.). In 2016, Malaysia had expressed interest in participating in this project but no confirmation was received by Hong Kong until now, HKO suggested the training workshop for Malaysia to be postponed to 2017.

**SWIget Project**: (led by HKO): The project is considered successful as many members have joint. It will continue to operate and be available on the World Meteorological Organization Severe Weather Information Centre (SWIC) website for download by users. As such, HKO suggested removing regular reporting of this project from WGDRR AOPs. After the discussion, WGDRR agreed with Hong Kong’s suggestion to remove the project from AOPs next year.

**Benefit evaluation of Typhoon Disaster Prevention and Preparedness**: These improvements are: (1) To collect intensity forecast data of CMA from 2002 to 2003 and renew the analysis of the relationship between direct economic loss and track or intensity forecast errors based on cases during 2002 – 2013. (2) To study the impact of track and intensity forecast on damage assessment based on data from China; (3) the benefit evaluated from track and intensity forecast based on data from China has finished and a paper in Chinese was published this year. During the WGDRR expert mission this year in Beijing, China in September 2016, NDMI had requested China to provide a list to Members regarding the data collection required for this project. Meanwhile, during the parallel meeting at 11th IWS, some Members indicated their interest in this project and asked whether China could provide the English version of this system. In this regard, China had agreed to send the English version of the system for Members’ reference and TCS will follow up with the coordination.

**SSOP Project (Phrase II)**: The funding for SSOP Project phrase II is yet to be approved by ESCAP, but the Members expressed that they will fully support the project.

**Sharing information related to DRR**: (e.g. legal framework, policy framework through member countries), what sort of information and how to share it were discussed. Member countries agreed with sharing information of disaster law and disaster management framework. To share the information, it was suggested to use the TC website and members could upload their disaster law and disaster framework on TC website. After 11th IWS, TCS has developed a forum as request in November 2016 and informed the DRR Members that the forum is available for sharing the information.

**4. Proposed Project and budget on WGDRR in 2017**

|  |  |  |
| --- | --- | --- |
| **Number** | **Name of Project** | **Proposed Budget** |
| **AOP1** | Expert Mission | USD 6,000 |
| **AOP2** | Promote international cooperation DRR project  Installation of Early Warning and Alert system in Member countries  iCowin Project | USD 7,500  (for iCowin) |
| **AOP3** | Benefit evaluation of typhoon disaster prevention and preparedness project | USD 5,000 |
| **AOP4** | SSOP Project (Phrase II) | From NSCAP |
| **AOP5** | Sharing information related to disaster risk management | No need |
| **AOP6** | Making Educational Videos | USD 3,000 |
|  | **Total** | **USD 21,500** |

**5. Conclusion**

On the basis of the information provided by the Members, the reports presented by project leaders and findings of the parallel session on WGDRR, the following conclusions were reached:

NDMI will discontinue the work related to the update of TCDIS and will share the ID and Password for member countries so that they can upload their damage data and operate TCDIS by themselves.

In 2017, expert mission will be conducted in Hawaii and member countries agreed with the invitation of one member country’s expert to join the 2017 expert mission

The project to promote the international cooperation for disaster risk management, which is led by NDMI, will be continued in 2017 for Lao PDR. Meanwhile, NDMI encourage the participation of other member countries in this project.

Regarding the iCowin project that aims to raise public awareness of weather hazards and climate change through installation of community weather station, HKO suggested conducting the training for at least 2 Members’ participation. During the parallel meeting, Lao PDR, USA and Malaysia indicated their intention to join the project in 2017. It will be confirmed in the upcoming session with the interested members.

SWIget Project (led by HKO): HKO suggested removing regular reporting of this project from WGDRR AOPs. After the discussion, WGDRR agreed with Hong Kong’s suggestion to remove the project from AOPs next year.

Benefit Evaluation of Typhoon Disaster Prevention and Preparedness: China will provide the English version of this research. In addition, STI will conduct a fellowship program to the Members on how to apply the Benefit Evaluation research.

SSOP (phrase II) project: TCS is waiting for the response from ESCAP regarding the approval of SSOP II revised proposal. If the proposal has been approved and finalized, WGDRR will fully support the implementation of the project.

It was suggested to share the information of smart disaster management system including social media or IT solutions. Also, members will share the successful examples after improving DRR regulation or policies. These information would be shared in 2017 WGDRR annual meeting in Korea.

It was suggested NDMI to share its existing educational materials related to DRR. In 2017, NDMI will modify and translate the videos to English by subtitle or/and dubbing.

**6. Recommendation of WGDRR**

On the basis of the conclusion of discussion and deliberations, the WGDRR made the following recommendations:

To allocate US$ 21,500 budget of TCTF in 2017 for i) supporting the participation of TCS and one member country in Expert Mission; ii) supporting the community based weather station pilot project to provide a training workshop in HK or dispatch experts to interested members by HK to install the weather stations and to provide technical documentation on installation, maintenance and data processing and display; iii) supporting the fellowship program for co-research work between Shanghai Typhoon Institute and member countries about benefit evaluation of Typhoon disaster prevention and preparedness; iv) supporting modifying and translating NDMI’s existing educational materials(video) to English .

To remove the update of TCDIS project from AOPs

To request NDMI to conduct the Expert Mission that aims to exchange knowledge and information related to DRR (technologies and policies) among member countries. Tentatively, it was decided that WGDRR would conduct the Expert Mission in Hawaii in 2017 and invite one member country’s DRR expert to join.

To request HKO to conduct the training workshop for the iCowin Project. Lao PDR, Malaysia and USA had expressed interest in participating in the iCowin project.

To request NDMI to continue to conduct the installation project of early warning and alert system related to typhoon disaster in Lao PDR and Vietnam.

To request STI, China to conduct a fellowship program on the project of benefit evaluation of Typhoon Disaster Prevention and Preparedness for Members which was tentatively planned for two Members’ participation due to the budget constraint.

To remove the Project of SWIget from WGDRR AOPS.

To request Members to share the information related to disaster risk management. WGDRR will continue to collect the information regarding Disaster Management with the use of IT technologies such as social media or apps in order to improve Members’ DRR policies. It was suggested the discussion topic of WGDRR annual meeting 2017 could be related to this subject.

To encourage Members to fully support and contribute to SSOP Project Phrase II.

To request NDMI of Republic of Korea to continue to host the 12th WGDRR annual meeting with funding support in Republic of Korea.

To request NDMI to make a video related to DRR education sharing with the Members.

To reappoint Dr. Shim, Jaehyun (ROK) as the Chair of WGDRR and Ms. Leong, Fong Peng as the Vice-Chair of WGDRR.

To appoint Ms. Miller, Genevieve (USA) as Vice-Chair of WGDRR replacing the current Vice-chair of WGDRR, Dr. Oh, Keumho (ROK).

**Summary Report of the 11thWGDRR Workshop**

**24 – 27 May 2016**

**Ulsan, Republic of Korea**

1. Organization

The 11th WGDRR annual meeting with the theme on Promoting Information Sharing related to DRR was successfully held on 24-27 May 2016 in Ulsan, Republic of Korea. It was hosted and contributed by National Disaster Management Institute (NDMI) of Republic of Korea.

AWG Member was also invited to join the Annual Workshop this year, as well as the DRR Members, by the generous offering from NDMI. Therefore, AWG Member could take this opportunity to conduct a meeting discussing the issues related TC’s development and gave their insightful comments to WGDRR. Around 40 participants attended the meeting that included 8 DRR members; AWG and TCS members, as well as the guests of DRR expert invited by NDMI.

1. Opening Ceremony

1. Silent tribute for disaster victims in the world

2. Opening address by Dr. SHIM, Jaehyun (Director General of NDMI)

3. Addresses by

YOON, Yong Sun (Director General of Disaster Response Policy)

KIM Sung Eun (Associate Economic Affairs Officer of UNESCAP)

PENG, Taoyong (Chief of Tropical Cyclone Programme Division of WMO)

TANABE, Raymond (Chair of ESCAP/WMO Typhoon Committee)

YU Jixin (Secretary of Typhoon Committee Secretariat)

1. Introduction

1. TC WGDRR members and participants

2. Programme of the 11th Annual Workshop

Dr. LEE Chihun (NDMI)

3. Discussion Forum - Review and future plans of SSOP

LIU, Jinping (Hydrologist, TCS)

1. Discussion Forum

1. Review and development of TC Strategic Plan

TANABE, Raymond (NOAA, Hawaii)

2. WGDRR strategies with reference to the Sendai Framework

Le-Huu, Ti (Da Nang University), KIM, Sung Eun (ESCAP), PENG, Taoyong (WMO) and Dr. ONO, Yuichi (Tohoku University)

3. LAI, Edwin (AWG) shared some thoughts on Typhoon Committee for the next 50 years.

1. Presentation - Members’ disaster management experiences

- Typhoon Committee Secretariat (LEI, Pui Chi Barrie)

- China (ZHANG, Yunxia)

- Japan (UEDA, Kazuhito)

- Republic of Korea (RHEEM, Sangkyu)

- Laos (SYSOUPHANTHAVONG, Bounteum)

- Macao, China (LEONG, Fong Peng)

- Malaysia (DALY, Mazlan)

- USA (KLEESCHULTE, Kenneth)

- Vietnam (NGUYEN, Viet Tien)

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|  |

1. Discussion

1. Review of 2016 WGDRR AOPs & Budget

2. Ways to improve operation of the WGDRR and AOPs 2017

3. Other Business

1. Report on the 11th annual meeting of the TC WGDRR

1. Summary of the annual meeting of the TC WGDRR

2. Closure of the Session

**Item I: Discussion - Review and future plans of SSOP**

* It is suggested that we have to make the best use of the document for the members.
* Engagement between TC and PTC is recognized very important; it is suggested to seek assistance from RSMC which is experienced in providing training. However, RSMC cannot find budget and the training project is currently supported by JMA.
* Within SSOP II, it is planned to invite representatives from 16 beneficial countries to join the workshop in Nanjing.
* The challenges will be who to invite, e.g. senior management. We may need input from NDMI, WMO, UNESCAP who to come to workshop. The purpose of the workshop is to use SSOP manual as the starting material. During the workshop, interested members (e.g. 3) will be targeted to do something further, such as training the frontlines or doing translation, etc.
* It is pointed out that we should not only focus on training, but we need to ask who need SSOP in the country, then we write to the focal points, that will be the starting point and bring the SSOP to the top level.
* It is suggested to seek advice from senior experts like UNESCAP.
* Regarding language issue, it is doubted if the English training material will be enough for 16 beneficial countries. If not, we may need to do translation.
* Members should be consulted regarding implementation of the project.

**Item 2: Discussion - Review and development of TC Strategic Plan**

* It is agreed that the Strategic Plan is the work of AWG. AWG will provide more information for focal points, as well as direction for Typhoon Committee to approve.
* It is suggested that AWG should set up the context to review Strategic Plan. The context should be understood by everyone so that they can start to think about the future when reviewing the Plan.

**Item 3: Discussion - WGDRR strategies with reference to the Sendai Framework**

* The main objective of TCDIS is to gather damage data but not forecasting. It is pointed out that new information for disaster is needed to do forecasting. Data will be computerized and new damage will be forecasted.

**Item 4: Discussion - The progress of 2016 WGDRR AOPs**

* AOP 1: Extended the Web GIS based TCDIS.

NDMI will change the method of collecting information this year.

* AOP 2: Provide the training program for disaster prevention.

NDMI planned to conduct Expert Mission in China this year. Regarding Expert Mission in Oman, NDMI invited Oman to join this year’s WGDRR annual meeting but no representative came. So NDMI will continue to contact Oman.

* AOP 3: Promote international cooperation DRR project

System has been installed in Mindanao Island in Philippines (2015) and in Lao PDR and Vietnam (2016) respectively.

Regarding I-Co Win project, Malaysia expressed interest before but no confirmation was received from Malaysia since 48th TC Session.

Lao PDR got the equipment from HK in 2015 but the installation has not been started yet as there is no budget. Lao PDR requested if HK can provide technical support regarding the installation. HK expressed that it will be difficult for them to travel to Lao PDR. But HK is able to send emails to Lao PDR to provide instructions. Also, HK suggested that Lao PDR could send representative to HK to learn about the installation.

* AOP 4: Benefit evaluation of typhoon disaster prevention and preparedness project

China presented the progress of the project, but further details need to be discussed in the coming IWS

* AOP 5: Supporting Synergized Standard Operation Procedure (SSOP II) Project

WGDRR will give input to this project. It is suggested that the focus should be put on how SSOP I help Typhoon Committee to improve decision making in Typhoon Committee. The 3 working groups should look at SSOP I and see how it can add value to Typhoon Committee. Then it will be easier to get the funding for SSOP II.

It is pointed out that UNESCAP is now considering and hopefully TC can get the funding from UNESCAP.

It is suggested that we should build SSOP I and we need new element from WGM and WGH. The 3 working groups should discuss together and seek experts to improve the process.

* AOP 6: Sharing information (e.g. legal and policy frameworks)

This is a new AOP. It is planned to collect information and combine them in a book, but this may need further discussion. The main purpose is to know the disaster law, policy etc. from member countries in order to improve disaster management skills. NDMI will send the email to member countries and NDMI will be responsible for collecting information.

* It is suggested that WGDRR could take the leading role in cross-cutting project. Selection of PTC members is important, it is clarified that WGDRR did not choose Oman for Expert Mission. But the original plan is to start Expert Mission in one PTC member and expand to other members later.
* Cooperation between PTC and TC, it is suggested that UNESCAP and TCS can play the bridging role connecting PTC and TC.
* The accommodation of IWS will be more expensive than expected. So it is suggested that some funding should be allocated from Expert Mission to IWS.
* It is suggested to include an AOP (AOP7) to make an integrated accessment over the past 10 years.

**Item 5: Discussion - Ways to improve operation of the WGDRR and AOPs 2017**

* It is suggested to:

1. Compare the DDR index and see which member has the lowest index and need more investment.
2. Integrated hazard awareness, the purpose is how the government can integrate with private agencies
3. Focus on Sendai Framework and reduce economic loss, how we can contribute to reduction of economic loss in urban areas
4. Policy guidance to all the members for investment and improvement on operation of DRR

* It is suggested to exchange emails (information and understanding) first before we come to talk about collaboration of cross-cutting projects.
* Assessment for the past 10 years, it is suggested that the member reports could be used as the assessment for the past 10 years. TCS has all the member reports over the 10 years

Regarding achievement of KRA 1 and 2, it is suggested that we can have 2 approaches including direct contribution from members and research on global database. Then we will be able to see clearly if there are gaps on database and see how to fill the gaps

* It is suggested that including old people in DRR can be the topic of next year’s DRR annual meeting and members can share the information and see if the information is enough to formulate it as another AOP.
* All the suggestions mentioned above will be discussed in the coming IWS and formulate AOPs 2017.
* In closing, all participants expressed their appreciation to NDMI for the funding support and the excellent arrangement of the Meeting.

**Appendix 1. WGDRR AOPs 2016 Implementation Status**

| **SPs KRA and SGs** | **Objective Number** | **Objective** | **Action** | **Other WG’s** | **TCS**  **Responsibility** | **Expected**  **Quarter Completed** | **Other**  **Organi-**  **zations**  **Involved** | **Success**  **Indicators** | **Funding**  **Required** | **Funding Sources** | **Completed**  **Yes or No** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| KRA1  KRA2  KRA4  SG1  SG2  SG3b  SG 4b SG 4c | 1 | Extending the WGTCIDS | (i) Collect disaster information from TC Members  (ii) Upgrade the search option for similar Typhoon in WGTCDIS | TCS | Assist in collecting  disaster information  from Members | Ongoing | NDMI | Upgrade the each option for finding similar Typhoon in WGTCDIS |  | NDMI, Korea | Yes |
| KRA1  KRA2  KRA 4 KRA 6  SG 4b SG 4c  SG 5b | 2 | Expert Mission | To exchange experience and information related to DRR among the Members | TCS | Coordinate to conduct the expert mission | Third | NDMI | Sent expert team to Lao PDR,  China | US $ 5,000 | NDMI, Korea and TCTF | Yes |
| KRA ALL SG ALL | 3 | Promote the international cooperation research | (i) install the Flash Flood Alert System (FFAS) and AWS in Lao PDR and Vietnam  (ii)  iCowin project  (iii) SWIget |  | Assist in planning and coordinating the international cooperation research | Second  And  Fourth | NDMI  and  HKO | (i) NDMI had dispatched experts to install the system in Vietnam and Laos  (ii) HKO conduct a training workshop | US $ 5,000  for iCowin project | (i) NDMI, Korea  (ii) TCTF | (i) Yes  (ii) Postpone in 2017 |
| KRA1  KRA2  KRA4  KRA5  SG4b  SG5a  SG6b | 5 | Provide benefit evaluation of Typhoon disaster prevention and preparedness | Provide benefit evaluation of Typhoon disaster prevention and preparedness |  | Coordinate to implementation of the project | Ongoing | CMA | The benefit evaluated from track and intensity forecast based on data from China has finished |  | China | Yes |
| KRA1  KRA2  KRA4  KRA6  SG4a  SG5a  SG5a  SG5b  SG6b | 6 | Support the Synergized Standard Operating Procedure (SSOP) project |  | WGM  WGH  TCS |  | Second |  | TCS has submitted the proposal to NESCAP for the funding approval |  | ESCAP | Yes |
| KRA1  KRA2  KRA4  KRA5  SG4b  SG5a  SG6b | 7 | Sharing information related to DRR (law, policy and framework) | DRR Members share the information related to DRR through DRR meeting and website |  |  | First | NDMI  TCS | TCS has developed a forum on TC website in order to share the relevant information by the Members |  | No need | Yes |

**Appendix 2. WGDRR Proposed AOPs 2017**

| **SPs KRA and SGs** | **Objective Number** | **Objective** | **Action** | **Other WG’s** | **TCS**  **Responsibility** | **Expected**  **Quarter Completed** | **Other**  **Organi-**  **zations**  **Involved** | **Success**  **Indicators** | **Funding**  **Required** | **Funding Sources** | **Completed**  **Yes or No** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| KRA1  KRA2  KRA 4 KRA 6  SG 4b SG 4c  SG 5b | 1 | Expert Mission | To exchange experience and information related to DRR among the Members | TCS | Coordinate to conduct the expert mission | Second  Or  Third | NDMI | Sent expert team to the participating members countries | US $ 6,000 | TCTF  and NDMI, Korea |  |
| KRA  ALL SG ALL | 2 | Promote the international cooperation research  (Including installing the Alert and early  warning system in members’ countries  and iCoWin  Project) | (i) install the Flash Flood Alert System (FFAS) and AWS in the participating members,  invite members to join the SWIdget and  (ii) Set up community weather station for raising public awareness | TCS | Assist in planning and performing the international cooperation research | First  and fourth | (i) NDMI  and (ii) HKO | (i) Continue the project of setting up the system in Lao DPR and Vietnam  (ii) HKO conduct a training workshop to interested Members | US $7,500 | (i) NDMI  (ii) TCTF |  |
| KRA 1  KRA2  KRA3  KRA5  4 SG 4b SG 4c KRA 5 SG 5b | 3 | Provide benefit evaluation of Typhoon disaster prevention and preparedness | STI conduct a fellowship program to interested Members for learning the research |  | Coordinate and assist in planning the fellowship | Second or Third | CMA | Complete collecting  response of  government and  departments,  evaluation report  finalized | US $5,000 | TCTF |  |
| KRA1  KRA2  KRA4  KRA6  SG4a  SG5a  SG5a  SG5b  SG6b | 4 | Support the Synergized Standard Operating Procedures (SSOP II) project | To support the implementation of the project | WGM  WGH  WGDRR |  | Ongoing | TCS | Contribute and participation in the project |  | ESCAP |  |
| KRA1  KRA2  KRA4  KRA6  KRA7  SG4b  SG4c  SG6b  SG6c | 5 | Sharing information (IT technologies utility in Disaster Management) | Member share the information related to DRR via website and DRR annual meeting | All Members | Assist Member in sharing the information | Second  and third | NDMI | Shared the relevant information | No need | NDMI,  Korea |  |
| KRA1  KRA2  KRA4  KRA6  KRA7  SG4b  SG4c  SG6b  SG6c | 6 | Making the Educational Videos related to Disaster Management | NDMI produce the videos related to Disaster Management |  | Assist in sharing the videos with the Members | Third or Fourth | NDMI | Produced the videos and shared with the Members | US $ 3,000 | TCTF |  |

SG1: To enhance cooperation among TC Members to reduce the number of deaths by typhoon-related disasters by half in the ten years of 2006 – 2015 (using the ten years of 1990 - 1999 as the base line).

SG2: To reduce the socio-economic impacts of typhoon-related disasters per GDP per capita by 20 per cent in the ten years of 2006- 2015 (using the ten years of 1990 - 1999 as the base line).

SG 3a: To identify and explore the beneficial use of resources such as rainfall brought by typhoon.

SG 3b: To study and promote the increasing use of typhoon-related beneficial effects among the Members.

SG 4a: To provide reliable typhoon-related disaster information for effective decision making in risk management in various sectors.

SG 4b: To strengthen capacity of the Members in typhoon-related disaster risk management in various sectors.

SG 4c: To enhance international and regional cooperation and assistance in the field of disaster risk reduction.

SG 5a: To promote and enhance culture of community-based disaster risk management among the Members.

SG 5b: To promote education, training and public awareness of typhoon-related disasters among the Members.

SG 6a: To facilitate RSMC capability to respond to the needs of the Members in forecasting and capacity building.

SG 6b: To improve capacity of Members to provide timely and accurate user-oriented and friendly tropical cyclone products and information.

SG 6c: To enhance capacity of Members' typhoon-related observation, monitoring, forecasting and warning.

SG 7a: To strengthen the capacity of Typhoon Committee to effectively discharge its responsibilities and functions described in this Strategic Plan and completed its stated mission in accordance with the Typhoon Committee’s Statute.

SG 7b: To mobilize available resources and engage collaborators for the implementation of the strategic goals.

KRA 1: Reduced Loss of Life from Typhoon-related Disasters.

KRA 2: Minimized Typhoon-related Social and Economic Impacts.

KRA 3: Enhanced beneficial typhoon-related effects for the betterment of quality of life.

KRA 4: Improved Typhoon-related Disaster Risk Management in Various Sectors.

KRA 5: Strengthened Resilience of Communities to Typhoon-related Disaster.

KRA 6: Improved capacity to generate and provide accurate, timely and understandable information on typhoon-related threats.

KRA 7: Enhanced Typhoon Committee’s Effectiveness, Efficiency and International Collaboration