

**IN-KIND CONTRIBUTION  
FROM TYPHOON COMMITTEE MEMBERS**

**(Item 17 of Provisional Agenda – In-kind Contribution)**

*(Submitted by Typhoon Committee Secretariat)*

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**ACTION REQUIRED:**

The Committee is invited:

To take note of the In-kind contributions from the Members

**APPENDICES:**

- 1) DRAFT TEXT FOR INCLUSION AT SESSION REPORT
- 2) SUMMARY AND LIST OF IN-KIND CONTRIBUTION FROM TYPHOON COMMITTEE MEMBERS

## **APPENDIX A:**

### **DRAFT TEXT FOR INCLUSION IN THE SESSION REPORT**

#### **REPORT OF TYPHOON COMMITTEE SECRETARIAT**

17.2.1 The Committee expressed appreciation for the in-kind contributions from some Members, namely China; Hong Kong, China; Japan; The Philippines; Republic of Korea; Thailand and Viet Nam. The Committee also invited the other Members to report their in-kind contributions, quantifying the corresponding unit of Man-months that have consumed in actions related to TCTF projects. (Appendix xxx).

17.2.2 The Committee also expressed the importance of having in-kind contributions with correspondence values.

*(Additional text to be added in the light of discussion on this item)*

## APPENDIX B:

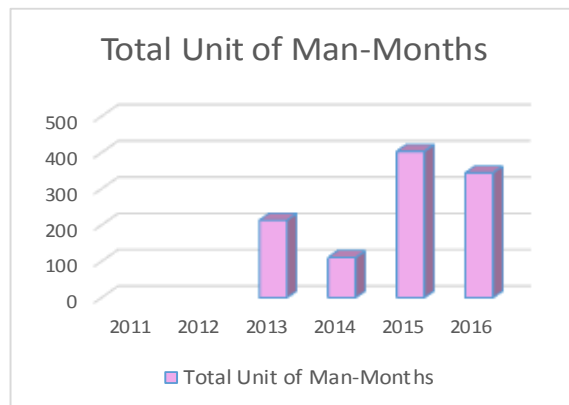
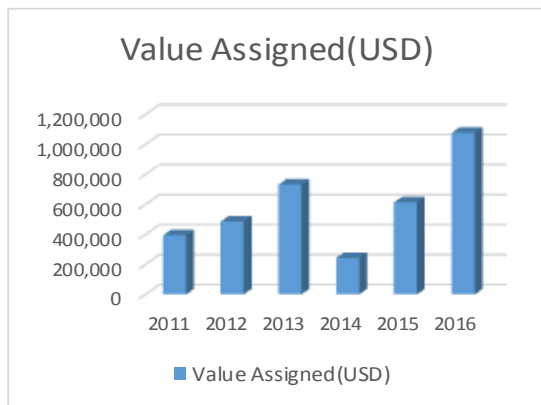
### IN-KIND CONTRIBUTION FROM TYPHOON COMMITTEE MEMBERS FOR 2016

#### Total In-Kind Contributions for 2016

<b>Total Value Assigned (USD):</b>	1,076,079.60
<b>Total Unit of Man-Months:</b>	343.99

Member	Unit of Man-Months	Value Assigned (USD)	Remarks
China	77.49	74,380.61	
Hong Kong	1.10	-	
Japan	28.50	18,400.00	
The Philippines	6.16	21,973.58	
Republic of Korea	154.27	931,895.08	
Thailand	13.13	13,268.00	
Viet Nam	63.34	16,162.33	
<b>Total :</b>	<b>343.99</b>	<b>1,076,079.60</b>	

#### Annually In-Kind Contributions



## In-Kind Contributions for 2016

Member Name: China

Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
CMA Typhoon Forecaster Training Programme (6 participants from TC members.)	6.00	18,500.00	Transportation, Logistics ,Travel Expenses ,Pocket money et.al.
Training Course on Surface Meteorological Observation, Macao, China(12 participants from Macao SAR, China)	2.00	889.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
Training Course on Technological Transfer in Coping with Climate Change for Developing Countries(1 participant from The Philippines)	0.94	413.85	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
International Training Course on Tropical Cyclone (1 Participant from Malaysia)	0.40	178.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
International Training Course on Tropical Cyclone (1 Participant from Hong Kong SAR, China)	0.40	178.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
International Training Course on Tropical Cyclone and International Training Course on Radar Meteorology (3 Participants from Zhejiang Province, China)	1.20	534.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
Training Facility Use and Maintenance (45 days with 3 courses )	12.90	5,742.00	Use and maintenance of the office and lecture room facilities (scanner, computer, Internet connection, photocopying, camera, etc.)
Support to attend Integrated Workshop (IWS) and other activities	0.90	7,000.00	Transportation, Logistics and Travel Expenses for IWS; Working Meeting on Cooperative Mechanism for Coastal Multi-hazards Early Warning Information Sharing and Technical Transferring between PTC and TC, WGH Working meeting
Verification of tropical cyclone operational forecast	2.00	1,850.00	Transportation, Logistics and Travel Expenses
Maintenance and training of CMACast and MICAPS system in Laos	0.50	3,961.76	International travel cost
Publication of Tropical Cyclone Research and Review	24.00	19,000.00	Online submission system installation, Printing and Delivery expense for quarterly Journal
POP3 Tropical Cyclone Research and Review	0.50	1,000.00	Served as Associate Editors in reviewing manuscripts
WGH-AOP4-OSUFFIM project related activities	18.00	5,000.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
WGH-AOP5-Xin'anjiang project report and publishment	6.00	-	Write the English report
Support to attend 48th session in Hawaii	0.50	5,680.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
Support to attend 5th WGH working meeting in Korea	0.50	2,200.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
Support to attend 11th Integrated Workshop (IWS) in Cebu	0.75	2,254.00	Transportation, Logistics and Travel Expenses, Stipend, Accommodation
<b>Total :</b>	<b>77.49</b>	<b>74,380.61</b>	

## In-Kind Contributions for 2016

Member Name: Hong Kong, China

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<b>Activities Supported</b>	<b>Unit of Man-Months</b>	<b>Value Assigned (USD)</b>	<b>Comments</b>
<b>TRCG [AOP 1] - Typhoon Committee Roving Seminar 2016 - Storm Surge</b>	0.1		Provide an expert to deliver lectures on "Development of an Operational Storm Surge Prediction System for a Coastal City - Hong Kong Experience"
<b>TRCG [AOP 2] - Typhoon Committee Research Fellowship 2016 - Tropical Cyclone Size Climatology</b>	0.5		Provide logistics support, preparation of tropical cyclone data and project supervision.
<b>WGM [AOP 5] - Assessment report on the impact of climate change on tropical cyclone in TC region</b>	0.5		Provide an expert in literature review and the compilation of the assessment report.
<b>Total :</b>	<b>1.1</b>	<b>-</b>	

## In-Kind Contributions for 2016

Member Name: Japan

Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
<b>Budget Item 3: Support for attachment of three (3) forecasters to RSMC Tokyo - Typhoon Center</b>	4.00	14,000	Logistics and preparation for lecture materials Airfare and DSA for three participants from PTC members
<b>Publication of "Annual Report on the Activities of the RSMC Tokyo - Typhoon Center"</b>	2.00	3,000	Edition, coordination and proofreading
<b>Publication of "Technical Review"</b>	2.00	200	Coordination and proofreading
<b>Development and maintenance of the JMA Numerical Typhoon Prediction (NTP) website</b>	5.00		Coordination, development and maintenance
<b>Update of TOM</b>	1.00		Coordination
<b>Budget Item 8: Development of regional radar network</b>	6.00		Lecture on radar composite map, and Quantitative Precipitation Estimation and Quantitative Precipitation Forecasting (QPE/QPF) Training on programming for radar composite maps
<b>Harmonization of Tropical Cyclone Intensity Analysis</b>	3.00	200	Coordination, analysis of TC datasets, and draft Final Report.
<b>Storm Surge Watch Scheme</b>	4.00		a) operationalization of multi-scenario storm surge prediction system and b) creation of week-range wave forecast products
<b>participation to Roving Seminar</b>	1.00	1,000	Travel expense for an assistant lecturer
<b>North Western Pacific Tropical Cyclone Ensemble Forecast Project (NWP-TCEFP)</b>	0.50	-	Maintenance of the web server
<b>Total :</b>	<b>28.50</b>	<b>18,400</b>	

# In-Kind Contributions for 2016

**Member Name: The Philippines**

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Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
Host and Participants in the TC Integrated Workshop in Cebu, Philippines (30 persons including Secretariat)	6	21,722.58	Food, Airfare, hotel and allowances
TC - WGH - Discussion on the Final Guidelines of Extreme Flood Forecasting, Seoul, South Korea	0.16	251.00	Salary and allowances
Total :	6.16	21,973.58	

## In-Kind Contributions for 2016

Member Name: Republic of Korea

Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
[KMA] Research Fellowship of TRCG	2.00	7,395.00	Travel Expenses for 3 typhoon experts for 2 weeks Other cost
[KMA] Development of Typhoon Seasonal Prediction System	12.00		Operation and improvement of web-portal for typhoon seasonal prediction
[KMA] Technology transfer of the Typhoon Analysis and Prediction System (TAPS)	0.30		Implementation of TAPS to Philippines (2 persons * 4 days )
[HRFCO] The 5th WGH meeting and workshop	7.90	14,563.69	Travel expenses for 10 member experts for 4 days Other cost(Venue and coffee break, etc)
[HRFCO] Two experts financial support for attending the 11th IWS	2.60	2,436.39	Travel expenses for 2 member experts for 5 days
[HRFCO] Development of the Extreme Flood Forecasting System	22.00		Establishment of the platform and level 2,3 module
[HRFCO] The Guidelines for Extreme Flood Risk Management	3.20		Refining and consulting the guideline in Korean and English version
[NDMI] Hosting the 11th WGDRR annual meeting	2.50	48,000.00	Accommodation, Logistics, and Travel Expenses for 11th WGDRR Annual Meeting
[NDMI] 2016 Expert Mission (Beijing)	0.60	3,500.00	Dispatch 3 experts to China for Expert Mission
[NDMI] Extended the Web GIS based TCDIS	54.11	242,000.00	Upgrade the functions in Typhoon Committee Disaster Information System(TCDIS)
[NDMI] Promote International Cooperation DRR Project	47.06	614,000.00	Construct Flash Flood Alert System(FFAS) and Automatic Rainfall Warning System(ARWS) in Lao PDR and Vietnam
<b>Total :</b>	<b>154.27</b>	<b>931,895.08</b>	



## In-Kind Contributions for 2016

### Member Name: Thailand

Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
TMD, Thailand supported six staff to serve as experts team in Development of regional radar network (AOP 4)	12.0		
TMD, Thailand supported to attend 11th IWS, 23-28 Oct. 2016	0.20	2,982	Travel Expenses and Daily Expenses (2 persons)
TCS expert's visit to Thailand for WGH-AOP4, 15-20 May 2016	0.20	570	Transportation and Daily Expenses for OSUFFIM field survey in Thailand (Project's leader - 1 person)
RID, Thailand officers supported OSUFFIM field survey in Thailand, 15-20 May 2016	0.20	998	Transportation, Accommodation and Daily Expenses for OSUFFIM field survey in Thailand (Thailand officers - 5 persons)
RID, Thailand supported OSUFFIM field survey in China, 25-28 Aug 2016	0.13	1,190	Travel Expenses and Daily Expenses for OSUFFIM field survey in Dongguan City, China (Thailand officers - 4 persons)
RID, Thailand supported to attend WGH5 in Republic of Korea, 4-9 Sep 2016	0.20	4,093	Transportation, Logistics, Travel Expenses and Daily Expenses for WGH5 Meeting (3 persons)
RID, Thailand supported to attend Integrated Workshop (IWS-11th) in Cebu, Philippines, 23-28 Oct 2016	0.20	3,435	Transportation, Logistics, Travel Expenses and Daily Expenses for IWS Meeting (2 persons)
<b>Total :</b>	<b>13.13</b>	<b>13,268</b>	

\* TMD refers to the Thai Meteorological Department (TMD)

RID refers to the Royal Irrigation Department (RID)

## In-Kind Contributions for 2016

Member Name: Socialist Republic of Viet Nam

Activities Supported	Unit of Man-Months	Value Assigned (USD)	Comments
<b>Hosting the Roving Seminar 2016</b>	50.00	3,513.55	Transportation, Logistics and Travel Expenses,... 80.000.000 Viet Nam dong (VND)
	1.67	1,581.10	5 Staff spent time in providing service in hosting in 10 days: 50 days x 720.000 VND = 36.000.000 VND
<b>Operating the Forecasting Support Center (FSC) under the Severe Weather Forecasting Demonstration Project (SWFDP) under activities of Meteorology Working Group</b>	11.67	11,067.68	10 staff spent time to operate the FSC: 10x720.000x35=252.000.000 VND
<b>Total :</b>	<b>63.34</b>	<b>16,162.33</b>	