Format for Biennial Reports by UNESCO’s Water-related Centres on activities related to the IHP in the period (June 2012- May 2014)

1. Basic information on the centre

<table>
<thead>
<tr>
<th>Name of the Centre</th>
<th>ASIA PACIFIC CENTRE FOR ECOHYDROLOGY (APCE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Director</td>
<td>Prof. Dr. Hery Harjono</td>
</tr>
</tbody>
</table>
| Name and title of contact person (for cooperation) | 1. Prof. Dr. Hery Harjono  
2. Dr. Ignasius D.A. Sutapa |
| E-mail                          | 1. hery.harjono@gmail.com / hery.harjono@apce-unesco.or.id  
2. ignasdas@yahoo.co.id / ignas.sutapa@apce-unesco.or.id |
| Address                         | CSC-BG, Jl. Raya Bogor Km 46, Cibinong – BOGOR – West Java - INDONESIA |
| Website                         | www.apce-unesco.or.id                      |
| Location of centre              | city/town _CIBINONG - BOGOR_ country _INDONESIA_ |
| Geographic orientation          | ☐ global  X ☐ regional                     |
| Region(s) (for regional centres)| Asia Pacific                               |
| Year of establishment           | 2009                                       |
| Year of renewal assessment      | 2016                                       |
| Signature date of most recent Agreement | Agreement APCE-UNESCO Jakarta 01 December 2012 (Ref : JAK/QUO/12/HYD-021) |

Themes of activities during reporting period

Focal Areas *

☐ groundwater  
☐ urban water management  
☐ rural water management  
☐ arid / semi-arid zones  
☐ humid tropics  
☐ cryosphere (snow, ice, glaciers)  
☐ water related disasters (drought/floods)  
☐ Erosion/sedimentation, and landslides  
☐ ecohydrology/ecosystems  
☐ water law and policy  
☐ social/cultural/gender dimension of water  
☐ transboundary river basins/ aquifers  
☐ mathematical modelling  
☐ hydroinformatics  
☐ remote sensing/GIS  
☐ IWRM  
☐ Watershed processes/management  
☐ global and change and impact assessment  
☐ mathematical modelling  
☐ water education  
☐ water quality  
☐ nano-technology  
☐ waste water management/re-use  
☐ water/energy/food nexus  
☐ water systems and infrastructure  
☐ other: (please specify) ___________________

Scope of Activities *

☐ vocational training  
☐ postgraduate education  
☐ continuing education  
☐ public outreach

* check on appropriate box  
* check all that apply
<table>
<thead>
<tr>
<th>Support bodies</th>
<th>INDONESIAN INSTITUTE OF SCIENCES (LIPI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hosting organization</td>
<td>INDONESIAN INSTITUTE OF SCIENCES (LIPI)</td>
</tr>
<tr>
<td>Sources of financial support</td>
<td>INDONESIAN GOVERNMENT</td>
</tr>
<tr>
<td>Existing networks and cooperation</td>
<td>UNESCO JAKARTA, ICHARM, ILEC, HTC, KYOTO UNIVERSITY, TSUKUBA UNIVERSITY, ANU, UNIVERSITY OF CANBERRA, UNIVERSITY OF WESTERN SYDNEY, K-WATER, YEUNGNAM UNIVERSITY KOREA, USM (MALAYSIA), UTM (MALAYSIA), NSM (THAILAND), UNIVERSITY OF QUEENSLAND, MAB UNESCO, UNIVERSITY OF ADELAIDE, MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, UNIVERSITY OF INCHEON KOREA, IGES JAPAN, ERCE POLAND, ICQHS IRAN, KOREAN WATER FORUM, IRTCES CHINA, UNIVERSITY OF MALAYA, TEXAS STATE UNIVERSITY, UNISZA MALAYSIA, LAGUNA LAKE DEVELOPMENT AUTHORITY PHILIPPINES, CIRAD, IRD, GRIDMAP KENYA, NHSA NIGERIA, TSWRI EGYPT, RCWH SUDAN, ICIWARM, UNITED ARAB EMIRATES UNIVERSITY, IGRAC, WMO, RAMSAR, OSS, HIDROEX, OKAYAMA UNIVERSITY, NATIONAL HYDRAULIC RESEARCH CENTER PHILIPPINES, CHUNGNAM NATIONAL UNIVERSITY KOREA, CSEAS KYOTO JAPAN, GADJAH MADA UNIVERSITY YOGYAKARTA, INDONESIA, UNIVERSITY OF TIMOR KEFAMENANU, INDONEISA, INSTITUT PERTANIAN BOGOR, INDONESIA</td>
</tr>
<tr>
<td>Governance</td>
<td>X ☐ director and governing board</td>
</tr>
<tr>
<td></td>
<td>☐ other: (please specify) __________________</td>
</tr>
<tr>
<td></td>
<td>Link to election of board members to the IHP Intergovernmental Council (IGC) and hosting country IHP National Committee</td>
</tr>
<tr>
<td>Frequency of meetings: once every 1_ __year(s)</td>
<td></td>
</tr>
<tr>
<td>Existence of UNESCO presence at meetings</td>
<td>X ☐</td>
</tr>
<tr>
<td>Institutional affiliation of director</td>
<td></td>
</tr>
<tr>
<td>Number of staff and types of staff</td>
<td>total number of staff (full-time, or equivalent) : <em><strong>12</strong></em>_____</td>
</tr>
<tr>
<td></td>
<td>number of staff who are water experts: <em><strong>8</strong></em>____</td>
</tr>
<tr>
<td></td>
<td>number of visiting scientists and postgraduate students:</td>
</tr>
<tr>
<td>Annual turnover budget in USD</td>
<td>250,000.00 USD</td>
</tr>
</tbody>
</table>

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1 please specify bodies that cover the operational costs of the centre, and other essential costs such as salaries and utility bills, and that provide institutional support to ensure centre’s sustainability
2 if different from support bodies
3 please specify sources of main budgetary and extrabudgetary funds to implement projects
4 please write international networks, consortiums or projects that the centre is part of, or any other close links that the centre has with international organizations or programmes, which are not already mentioned above
2. Activities undertaken in the framework of IHP in the period June 2012 – May 2014

2.1 Educational activities (i.e., those with accreditation) that directly contributed to the IHP-VII/VIII (Appendix-1 and 2) and WWAP

Please include here those activities which led to accreditation of degrees, or those held in formal school settings.

2.2 Research activities that directly contributed to the IHP-VII and/or IHP-VIII activities

Please include research/applied projects outputs such as publications that directly contributed to the IHP-VII/VIII and WWAP objectives

In collaboration with RC for Limnology – Indonesian Institute of Sciences :
- Development of Saguling Reservoir Demo-site
- Biovillage development in Giam Siak Kecil – Bukit Batu Biosphere Reserve in collaborate with MAB – Unesco ; Promoting Alternative Technology To Provide Clean Water In Peat land Area
- Development of Peat Water Treatment Technology To Provide Clean Water In Peat land Area in collaboration with Katingan Prefecture – in Central Kalimantan and Kuburaya Distric – West Kalimantan

2.3 Training activities that directly contributed to the IHP-VII/VIII and WWAP objectives
- APCE organized IFAS (Integrated Flood Analysis System) Training Course in collaboration with ICHARM and Unesco Jakarta, January 2013 in Jakarta
- APCE organized workshop on water resources management in Islamic Boarding School Ciamis, February 2013 in Ciamis
- APCE organized workshop on Lakes Management in collaboration with ILEC, Japan, July 2013 in Jakarta for preparing WLC 2016 in Indonesia
- Workplan for each division in APCE organization
- Discussion and preparation for WLC 2016
- Discussion on book publication with topic Ecohydrology,
- Discussion and preparation for ICE (International Conference for Ecohydrology) on November 2014 at Yogyakarta
- Dr. Ignasius D.A. Sutaoa gives lecture in IHP Training Course in Kyoto University in December 2013

3. Collaboration and linkages

3.1 Participation in major international networks, programmes, partnerships with other UN or other International Agencies, media and professional bodies
- APCE participate in IFIT Project in collaboration with UNESCO Jakarta Office and Indonesian National Committee for Unesco
- APCE organized IFAS Training course in collaboration with ICHARM and Unesco Jakarta

3.2 Participation in meetings related to the IHP and UNESCO (e.g., the UNESCO General Conference, the UNESCO Executive Board, the IHP Intergovernmental Council and/or other meetings organized by IHP)
- Annual meetings of the Regional Steering Committee for IHP in the Asia Pacific region are held in rotational base locations. APCE has always participated in these yearly meetings
- Dr. Iskandar Zulkarnain, Dr. Tri Widiyanto, Dr. Ignasius D.A. Sutapa Attend to 20th Session of IC of IHP in UNESCO Paris 4 – 7 June 2012
- Dr. Ignasius D.A. Sutapa attends to the International Workshop "The Asia Pacific Water Museum : Concept and Development" NWM, Pathum Thani 24 – 25 June 2012
- Dr. Gadis Sri Haryani attends to the International Seminar on Ecohydrology and Global Water Issues, University Algarve, Faro, Portugal, 4 – 5 September 2012
  Delegation:
  Prof. Dr. Iskandar Zulkarnain (Deputi Bidang IPK-LIPI)
  Prof. Dr. Hery Harjono (Directur APCE)
  Dr.Ir. Fatimah Zulfa Padma (Deputi Bidang Jasil)
  Dr. Siti Nuramaliati Prijono (Deputi Bidang IPH)
- Dr. Ignasius D.A. Sutapa attended on Strategic and High Level Meeting on Water Security and Cooperation, di Nairobi, Kenya – September 11 -13, 2013,
- Prof. Harjono attended the Strategic Meeting of Asia-Pacific IHP HELP and Ecohydrology in Jakarta (2-3 December 2013)
- Attending the 21th IHP Regional Steering Committee Meeting (RSC-Meeting) in Gyengju – South Korea, October 1 – 4, 2013
  Delegation :
  • Prof. Dr. Iskandar Zulkarnain
  • Prof. Dr. Hery Harjono
  • Dr. Ignasius D.A. Sutapa, MSc
- Consultative meeting with ILEC delegation, Japan, March 2013, Attending International Symposium on Integrated Lake Basin Management (ILBM) which coordinator by ILEC, Kyoto – Japan. In addition, also to discuss for preparing WLC (World Lake Conference) 2016 in Indonesia
  Delegation : Dr. Ignasius D.A. Sutapa, MSc
- Coordination in order to propose the Governing Boards APCE
  Governing Boards of APCE :
  Prof. Dr. Soon Tak Lee : South Korea
  Prof. Dr. Takara : Japan
  Prof. Dr. Quentin Grafton : Australia
  Personal from Indonesia :
  Prof. Dr. Iskandar Zulkarnain, Chairman of IHP Indonesia
  Prof. Dr. Hidayat Pawitan, IPB
- 21st IHP Nagoya Training Course in Asia and Pacific Region on Introduction to River Basin Environment Assessment under Climate Change. @8 November – 9 December 2013, Kyoto University, Japan.
- Attending at the 37th Southeast Asia Seminar on “Human-Nature Interactions in Southeast Asia: Trans-disciplinary Approaches” (October 29 – 31, 2013 – Penang, Malaysia). Coorganized by CSEAS (Japan) and Universiti Sains Malaysia (Malaysia).
- Keynote speaker at the 8th International Symposium on “The Recent Technologies for Flood Disasters Mitigation Measures” (November 6, 2013, Daejeon – South Korea). Coorganized by IWRRI (International Water Resources Research Institute) Chungnam National University and ARCOM (Advanced Research Centre for River Operation and Management)
- Keynote speaker at the 2nd International Symposium on “Advanced Technology for River Management” (November 7 - 9, 2013, Seoul – South Korea). Coorganized by ARCOM (Advanced Research Centre for River Operation and Management) and Seoul National University, Korea.
- Attending "The First International Workshop on Climate and Societal Change in Coastal Areas in Indonesia And South East Asia", February 19 - 22, 2014 at Sahid Hotel – Jakarta.
3.3 Collaboration and networking with other UNESCO category 1 or 2 institutes/centres

3.3.1 Cross-appointment of directors of the category 1 or 2 institutes or centres on the governing board

- Nomination of Governing Board members in progress:
  - Prof. Dr. Soon Tak Lee from IHP Korea
  - Prof. Dr. Kaoru Takara from IHP Japan
  - Prof. Dr. Quentin Grafton from IHP Australia

- Initiation of Collaboration between APCE and ICHARM(Japan), HTC (Malaysia), ERCE

3.3.2 Exchange of information on activities such as training/educational materials, and funding opportunities

- ERCE, HTC, ICHARM, IHP Japan,

3.3.3 Exchange of staff, most notably professionals and students

- Promoting Master and PhD students in collaboration with ERCE, UQ Australia, ICCE (Portugal)

3.3.4 Implementation of joint activities, such as workshops, conferences, training programmes, joint projects, field visits, software and data sharing, knowledge exchange and publications

- Joint project for IFIT with Unesco Jakarta

3.4 Relationships with the UNESCO field and regional office whose jurisdiction covers the country of location

- Unesco Jakarta

3.5 Relationship with the UNESCO National Commission and the IHP National Committee in the country of location and with other organizations of other countries

- Indonesian National Committee for Unesco, Indonesia IHP, Japan IHP, Korean IHP, Australian IHP, Malaysian IHP,

3.6 Relationship with other UNESCO-related networks, such as UNESCO Clubs, ASPnet, and UNESCO chairs

4. Communication

4.1 Communication and knowledge dissemination activities undertaken in the framework of IHP

- In collaboration with Ministry of Public Works and INC-UNESCO for World Water Day and Earth Day Events

4.2 Policy documents and advice

5. Update on Centre Operations

5.1 Membership of the Board of Governors between designated period

- Governing Board Members:
  - Prof. Dr. Iskandar Zulkarnain (Indonesia)
  - Prof. Dr. Soontak Lee (Korea)
  - Prof. Dr. Kaoru Takara (Japan)
  - Prof. Dr. Quentin Grafton (Australia)
  - Representative of DG UNESCO
  - Prof. Dr. Hidayat Pawitan (Indonesia/Observer)

- Executive Board Members:
  - Executive Director: Prof. Dr. Hery Harjono
• Executive Secretary : Dr. Ignasius D.A. Sutapa  
  Yovita Lambang Isti  
• Director for Research Program: Prof. Dr. Hidayat Pawitan  
  Prof. Dr. Gadis Sri Haryani  
• Director for Information System : Prof.Dr. Robert Delinom  
  Dr. Luki Subehi  
• Director for Public Awareness : Dr. Munasri  
  Dr. Deny Hidayati  
• Director for Training and Workshop : Drs. M. Fakhrudin  
  Dr. Apip

- We finished to build APCE Secretariate building. The APCE secretariate is now in function for the activities after the APCE building opening ceremony by the Chaimen of LIPI in March 25 2014.

5.2 Key decisions made (attach minutes of meetings)

6. Evidence of the Centre’s Impacts

6.1 Science Impacts (Major contributions to the science, technology, education, and regional and/or international cooperation in the field of water)
- Provide alternative technology (IPAG) in order to increase clean water services in peatland areas
- Remote sensing technology for lake water quality monitoring tools
- Sustainable water resources management concept for Islamic Boarding Schools

6.2 Knowledge Transfer Impacts (Major achievements in the dissemination of knowledge and technology transfer)
- Capacity building for local people in operating IPAG installation to produce clean water from peat water in Katingan and Bengkalis
- Capacity building for local people to manage water resources in Islamic Boarding Schools in Ciamis

6.3 Policy Impacts (advice sought by government and other bodies and evidence of inputs into policy arena)
- Adoption of IPAG technology by local government for increasing water services in peatland areas in Katingan Central Kalimantan Province and Bengkalis Riau Province.

7. Future activities that will contribute directly to IHP and/or to WWAP

7.1 Operational Plan (attach if available)

ASIA PACIFIC CENTRE FOR ECOHYDROLOGY (APCE) – UNESCO CATEGORY II CENTRE

• VISION
  o To be an Internationally Reputed Asia Pacific Center in Urban and Rural Ecohydrology by 2021

• MISSION
  o Develop understanding and practices of ecohydrology through research, training and knowledge exchanges, information systems and public awareness.

• VALUES
  o Wisdom
  o Integrity
  o Harmony

STRATEGIC GOALS :
1. To promote local resources base ecohydrological research
2. To strengthen local capacity to adopt ecohydrological concept and approach
3. To provide easy access to local resources based ecohydrological information and knowledge
4. To enhance public awareness of local resources based ecohydrological practices

7.2 Strategic Plan linked with IHP-VIII (Appendix 2)
   (attach strategic plan if available)

8. **Strategic Alignment with IHP-VIII**
   8.1 Focal areas within IHP-VIII the centre plans to contribute to and specific actions the centre will undertake to align its activities with the strategic plan for IHP-VIII (Please see Appendix-2)

9. **Annexes**
   9.1 List of publications released by the centre (there can be overlap with those listed in 2.3 above)
      - Ignasius Sutapa, IPAG60: Alternative technology to provide clean water in peatland area.” October 2013, Daegu, Korea.

   9.2 List of training courses conducted (there can be overlap with those listed in 2.1 above)
      - IFAS Training Course in collaboration with ICHARM and Unesco Jakarta
      - Ecohydrology training and workshop in collaboration with Unesco Jakarta
Overview of the Core Programme Themes of the Seventh Phase of the IHP
(2008-2013)
WATER DEPENDENCIES: SYSTEMS UNDER STRESS AND SOCIETAL RESPONSES

Contribution of APCE in 7th Phase of IHP (2008-2013)

Theme 1. Adapting to impacts of global changes on river basins and aquifer systems
1. Climate change impacts on hydrological cycle and consequence impact on water resources
   - Impacts of landuse and climate change on hydrologic regime on a watershed
   - Studies on water resources carrying capacity (WRCC)

Theme 3. Ecohydrology for sustainability
1. Improving ecosystem quality and services by combining structural solutions with ecological biotech.: in collaboration with Research Center for Limnology-Indonesian Institute of Sciences (LIPI) conduct research on Ecohydrology application in Lake Limboto, Gorontalo Province

Theme 5. Water education for sustainable development
1. Tertiary water education and professional development
   - Training of IFAS and Basic hydrological training for the water resources managers of the river area, in collaboration with ICHARM, Unesco Jakarta, Ministry of Public Works
   - Commemorating the world water day (with Ministry of Public Works), Exhibition, National seminar (opened by the Minister of Public Works), discussions with awardees good water management (Mayor of Surabaya), 22 Ministries participated
   - International Seminar on delta region held by the Coordinating Ministry for People's Welfare at the JCC, (The event attended by researchers from about 12 countries, opened by the Minister.)
Theme 1: ADAPTING TO THE IMPACTS OF GLOBAL CHANGES ON RIVER BASINS AND AQUIFER SYSTEMS

Focal area 1.1 - Global changes and feedback mechanisms of hydrological processes in stressed systems
Focal area 1.2 - Climate change impacts on the hydrological cycle and consequent impact on water resources
Focal area 1.3 - Hydro-hazards, hydrological extremes and water-related disasters
Focal area 1.4 - Managing groundwater systems’ response to global changes
Focal area 1.5 - Global change and climate variability in arid and semi-arid regions

Theme 2: STRENGTHENING WATER GOVERNANCE FOR SUSTAINABILITY

Focal area 2.1 - Cultural, societal and scientific responses to the crises in water governance
Focal area 2.2 - Capacity development for improved governance; enhanced legislation for wise stewardship of water resources
Focal area 2.3 - Governance strategies that enhance affordability and assure financing
Focal area 2.4 - Managing water as a shared responsibility across geographical & social boundaries
Focal area 2.5 - Addressing the water-energy nexus in basin-wide water resources

Theme 3: ECOHYDROLOGY FOR SUSTAINABILITY

Focal area 3.1 - Ecological measures to protect and remediate catchments process
Focal area 3.2 - Improving ecosystem quality and services by combining structural solutions with ecological biotechnologies
Focal area 3.3 - Risk-based environmental management and accounting
Focal area 3.4 - Groundwater-dependent ecosystems identification, inventory and assessment

Theme 4: WATER AND LIFE SUPPORT SYSTEMS

Focal area 4.1 - Protecting water quality for sustainable livelihoods and poverty alleviation
Focal area 4.2 - Augmenting scarce water resources especially in SIDS
Focal area 4.3 - Achieving sustainable urban water management
Focal area 4.4 - Achieving sustainable rural water management

Theme 5: WATER EDUCATION FOR SUSTAINABLE DEVELOPMENT

Focal area 5.1: Tertiary water education and professional development
Focal area 5.2: Vocational education and training of water technicians
Focal area 5.3: Water education in schools
Focal area 5.4: Water education for communities, stakeholders and mass-media professionals
Appendix-2

Overview of the Core Programme Themes of the Eighth Phase of the IHP (2014-2021)
WATER SECURITY: ADDRESSING LOCAL, REGIONAL, AND GLOBAL CHALLENGES

APCE will actively contribute to IHP phase VIII (specifically related to Themes 5 and 6) by involving in several project activities as below:

List of Projects and Timeline
1. Project Title: Ecohydrology for water security in urban and rural areas
   Description: poverty, ecohydrology concept, water security, urban and rural areas
   Timeline: 3 years
   Contribution to IHP VIII: Theme V Focal Area V.3

2. Project Title: Strengthening water management capacity for local communities
   Description: low capacity, local communities, water management, capacity building
   Timeline: 3 years
   Contribution to IHP VIII: Theme VI Focal Area VI.5

3. Project Title: Sustainable water management for developing resilience cities
   Description: water management, resilience cities, sustainable management
   Timeline: 3 years
   Contribution to IHP VIII: Theme IV Focal Area IV.4

4. Project Title: Development of appropriate technologies for water security in marginal areas
   Description: water security, marginal area (peatland, coastal and small islands, flooding area, water polluted areas), appropriate technology
   Timeline: 3 years
   Contribution to IHP VIII: Theme V Focal Area V.3

5. Project Title: Water education for children, youth, and local people by promoting awareness of water issues through informal water education
   Description: water education, informal education, public awareness, local people and wisdom
   Timeline: 3 years
   Contribution to IHP VIII: Theme VI Focal Area VI.3 and VI.4
THEME 1: WATER-RELATED DISASTERS AND HYDROLOGICAL CHANGE
  Focal area 1.1 - Risk management as adaptation to global changes
  Focal area 1.2 - Understanding coupled human and natural processes
  Focal area 1.3 - Benefiting from global and local Earth observation systems
  Focal area 1.4 - Addressing uncertainty and improving its communication
  Focal area 1.5 - Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events

THEME 2: GROUNDWATER IN A CHANGING ENVIRONMENT
  Focal area 2.1 - Enhancing sustainable groundwater resources management
  Focal area 2.2 - Addressing strategies for management of aquifers recharge
  Focal area 2.3 - Adapting to the impacts of climate change on aquifer systems
  Focal area 2.4 - Promoting groundwater quality protection
  Focal area 2.5 - Promoting management of transboundary aquifers

THEME 3: ADDRESSING WATER SCARCITY AND QUALITY
  Focal area 3.1 - Improving governance, planning, management, allocation, and efficient use of water resources
  Focal area 3.2 - Dealing with present water scarcity and developing foresight to prevent undesirable trends
  Focal area 3.3 - Promoting tools for stakeholders involvement and awareness and conflict resolution
  Focal area 3.4 - Addressing water quality and pollution issues within an IWRM framework - improving legal, policy, institutional, and human capacity
  Focal area 3.5 - Promoting innovative tools for safety of water supplies and controlling pollution

THEME 4: WATER AND HUMAN SETTLEMENTS OF THE FUTURE
  Focal area 4.1 - Game changing approaches and technologies
  Focal area 4.2 - System wide changes for integrated management approaches
  Focal area 4.3 - Institution and leadership for beneficiation and integration
  Focal area 4.4 - Opportunities in emerging cities in developing countries
  Focal area 4.5 - Integrated development in rural human settlement

THEME 5: ECOHYDROLOGY, ENGINEERING HARMONY FOR A SUSTAINABLE WORLD
  Focal area 5.1 - Hydrological dimension of a catchment—identification of potential threats and opportunities for a sustainable development
  Focal area 5.2 - Shaping of the catchment ecological structure for ecosystem potential enhancement — biological productivity and biodiversity
  Focal area 5.3 - Ecohydrology system solution and ecological engineering for the enhancement of water and ecosystem resilience and ecosystem services
  Focal area 5.4 - Urban Ecohydrology — storm water purification and retention in the city landscape, potential for improvement of health and quality of life
  Focal area 5.5 - Ecohydrological regulation for sustaining and restoring continental to coastal connectivity and ecosystem functioning

THEME 6: WATER EDUCATION, KEY FOR WATER SECURITY
  Focal area 6.1 - Enhancing tertiary water education and professional capabilities in the water sector
  Focal area 6.2 - Addressing vocational education and training of water technicians
  Focal area 6.3 - Water education for children and youth
  Focal area 6.4 - Promoting awareness of water issues through informal water education
  Focal area 6.5 - Education for transboundary water cooperation
Appendix-3. Photos of Construction of APCE Buiding

Figure 1.: start of APCE building construction

Figure 2.: Chairman of LIPI in starting of APCE building construction
Figure 3. APCE Secretariate
Figure 4. APCE Secretariate
Figure 5. Meeting activities in APCE building
Figure 6. Inauguration of APCE Secretariate Building