1. Background

The main aim of the BDP Phase 2 Programme (BDP2) is the formulation of the rolling IWRM based Basin Development Plan that is acceptable to the countries and main stakeholders for implementation. The Plan will comprise three main elements (i) Development Scenarios, which assess the potential for development of the Mekong waters and guide the formulation of the Basin IWRM Strategy and the Project Portfolio; (ii) An IWRM-based basin Strategy, which provides a long-term view of how the Mekong Basin may be developed and managed, and a framework within which the Project Portfolio will be designed and implemented and (iii) A Project Portfolio of large-scale water resources development projects and supporting non-structural projects that would continue to develop some of the Basin’s land and water resources, as envisioned in the 1995 Agreement.

The BDP planning process will be undertaken at regional (basin), national and sub-basin (sub-area) levels. It will employ a number of models and assessment tools with particular aim to support the formulation and assessment of the development scenarios and of the projects to be included in the project portfolio. These models and tools currently include the MRC’s Decision Support Framework (DSF), the Integrated Basin Flow Management (IBFM), Strategic Environment Assessment (SEA), Social impact assessment and other tools and checklists in the MRC context.¹

¹ See draft Approach to scenarios formulation and assessment and BDP2 Assessment Framework
Building IWRM planning capacity amongst MRCS, NMCs and line agencies at national and sub-basin levels is an important objective of BDP2, both to support the production of the IWRM-based Basin Development Plan and a sustainable BDP process. This objective will be achieved through the implementation of component 4 of the BDP2 with the following focused areas for training and capacity building:

- Knowledge and skills in scenario-based basin planning and use of different assessment tools for the BDP process (output 4.2);
- Capacity to use knowledge base to support decision making (output 4.3)
- Knowledge and skills to internalize the IWRM planning principles and approaches in MRC (output 4.4)
- Capacity to assess the value of water and cost/benefits sharing (output 4.5)
- Capacity in trade-off facilitation and mediation (output 4.6).

During BDP Phase 1 and under other MRC Programmes, several similar trainings were undertaken. These include an introductory training on scenario-based planning delivered by BDP1 in 2003 with technical support from the Murray-Darling Basin Commission (MDBC), series of training on the use of DSF by the former Water utilization programme (WUP) and IKMP and trainings on IBFM by EP, etc.

A proposed approach to implement this Component of BDP2 was prepared based on the review of training and capacity building activities that have been and are planned to take place under various MRC Programmes, including BDP1. According to this approach, the following priority trainings need to be organized in 2008:

<table>
<thead>
<tr>
<th>Training</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDP4.2A</td>
<td>As soon as possible</td>
</tr>
<tr>
<td>BDP 4.4A</td>
<td>September – October 2008</td>
</tr>
<tr>
<td>BDP4.4B</td>
<td>As soon as possible</td>
</tr>
<tr>
<td>BDP 4.6A</td>
<td>End 2008 – early 2009</td>
</tr>
</tbody>
</table>
These training modules and materials will be adapted to the national context in each of the four Member countries, in line with the national BDP capacity analysis and training needs assessment. National and local trainings will be provided through BDP2 country level activities.

The BDP2 team has done some preliminary thinking on possible outline of these training courses, taking into account BDP specific needs, available materials and other initiatives within the MRC. Annex 1 provides this preliminary outline as a reference.

2. Objectives of the assignment

• To design the above-mentioned four training courses including identification of relevant additional resources persons within and outside MRC
• To consolidate training materials, building upon existing materials of the MRC and other institutions.
• To deliver the training courses in close coordination with other MRC Programmes and resources persons
• To provide BDP2 with recommendations based on lessons learned from these training courses and review of National BDP capacity analysis and training needs assessments on how to adapt and further provide these training courses in specific national context.

3. Expected outputs

• Training modules and materials for the above-mentioned four training courses
• Four training courses delivered
• Brief evaluation report of each training course with supporting materials such as Feedback sheets by participants, etc
• Improved training modules and materials based on evaluation reports
• Brief end of assignment report(s) by the Consultant team or individual consultant highlighting recommendations for adapting and provision of these training courses in the four Member countries through BDP national training activities.

4. Scope of work

The Consultants will work under the overall coordination of and report to the BDP2 Programme Coordinator.
The Consultants will work closely with the BDP2 team that will provide background information on the BDP programme to ensure that the training courses are best tailored to the needs of BDP2. The followings are generic tasks of the consultants. More specific tasks for each of the consultant are provided in section 5 below.

- Review of BDP relevant documents (Programme document, Inception Report, Approach to implement IWRM capacity building in BDP2, BDP1 Completion report, National BDP capacity analysis and training needs assessments (if available), etc)
- Review of relevant existing training courses and materials in BDP and MRC Programmes
- In close discussion with BDP team and other MRC Programmes, Refine the objectives, expected outcome and target participants
- Design each training course including but not limited to relevant modules, content of each module, materials and method to deliver the training to achieve the objective and to be appropriate to the target participants
- Deliver the training courses and prepare course evaluation report
- Prepare end of assignment report

5. Required composition and expertise

The assignment requires at least 03 experts: 01 professional Training Expert on IWRM, 01 Training Expert on scenario-based water resources planning and 01 Training Expert on water governance with focus on conflict prevention and management. Specific tasks and required qualifications of the consultants are as follows.

5.1 Training Expert - IWRM (02 work month, to be mobilized as soon as possible for 2 split missions)

The IWRM Training expert will be responsible for the training course on IWRM principles in planning (BDP.4.4A) and the TOT for IWRM planning at sub-basin levels (BDP 4.4B) while providing support to other training courses. He/she will carry out the following specific tasks:

Course 4.4A:
- Review the Integrated river basin management training modules, prepared in BDP1, other IWRM training modules and materials in MRC and globally/regionally available latest IWRM theories and practices
- Further develop the indicative outline and prepare the full design and materials for the training course on IWRM principles in planning in close consultation with BDP2 team and relevant Programmes in MRC (ICBP and others).
- Work with other experts to deliver the training.

Course 4.4B:
• Review BDP Sub-area related materials including the Guidelines for Sub-area activities in BDP2, BDP1 guidelines and Sub-area reports, BDP1 and (available) BDP2 training needs assessment reports.
• Design the TOT course for IWRM planning at sub-basin level with focus on Stage 1 of BDP2 Sub-area activities i.e. updating the Sub-area reports and stakeholder participation in IWRM planning.
• Prepare training materials with guidelines for national trainers to apply in delivering the course at national and sub-area levels
• Work closely with National BDP Coordinators and BDP2 team in selecting national trainers to participate in this TOT course
• Delivery the course with support of other experts
• Prepare course evaluation reports

Required qualifications include: Post graduate degree on natural resources management, preferably in water resources management and/or social science; At least 15 years working experience in water resources management; Track records of design, preparation of materials and provision of IWRM training and capacity building; Sound knowledge of latest concepts and practical experiences in IWRM, especially in managing international rivers; Knowledge of IWRM issues and challenges in the Mekong River Basin/Lower Mekong Basin as advantage; and Fluency in spoken and written English.

5.2 Training Expert - Scenario-based Water Resources Planning (01 work month, to be mobilized as soon as possible)

The Scenario-based water resources planning expert will be mainly responsible for the scenario-based planning and use of tools training (BDP4.2) and provide support to other training, especially the training on identification of trade-off situations in basin planning and facilitation skills (BDP4.6). He/she will carry out the following specific tasks:

• Review the existing BDP1 training materials on scenario-based planning
• Review the BDP2 proposed approach to scenario formulation and assessment, both at basin and sub-basin levels
• Design the training course that will combine theories and interactive practical exercises using existing water resources development scenarios in the Mekong river basin and the use of tools (both within and outside MRC) to assess these scenarios such as DSF, IBFM, etc
• Work closely with the IWRM training expert, BDP2 team and relevant MRC Programmes (IKMP, EP and others) in finalizing the training course
• Supervise the preparation of different parts for the training course by relevant MRC staff
• Deliver the training course in close coordination with other MRC staff and other two experts
• Prepare course evaluation report
Required qualifications include: Post graduate degree on natural science, preferably in water resources management or water engineering; At least 10 years working experience in water resources planning using scenarios; Track records of design, preparation of materials and provision of training and capacity building in scenario-based water resources management; Knowledge of IWRM issues and challenges in the Mekong River Basin/Lower Mekong Basin as advantage; and Fluency in spoken and written English.

5.3 Training Expert - Water Governance (01 work month, to be mobilized in November 2008)

The Water governance specialist will be mainly responsible for the training course on identification of trade-off situations in basin planning and facilitation skills (BDP4.6) and support other training courses. He/she will carry out the following but not limited to the following tasks:

- Develop a good understanding of the political context in the MRB/LMB and governance system in the four Member countries of the MRC
- Develop a good understanding of the BDP planning cycle, critical decision making/consensus building requirements and institutions involved in this process
- Liaise with ECO-ASIA initiative to understand the MRC conflict prevention and management activities to date
- In close coordination with the BDP team, design the training course
- Test the course modules and materials with a small group of experts, who have a good understanding of the BDP and its requirements (10-15 persons including BDP2 team, National BDP Coordinators, Leader of SA Working groups, key MRC programmes)
- Refine the training module and materials and deliver the training course with larger group (3-40 participants)
- Prepare course evaluation report and recommendations for further training at regional and national levels.

Required qualifications include: Post graduate degree on international relations and/or natural science. Strong background on conflict prevention and management; At least 10 years working experience in water governance issues with experience in international river basin preferred; 5 years of practical facilitation skills; Track records of design, preparation of materials and provision of training and capacity building in negotiation and facilitation skills; Good knowledge of IWRM challenges in the Mekong River Basin/Lower Mekong Basin; and fluency in spoken and written English.

6. Reference documents

- BDP1 Completion report, Country training needs assessments
- BDP1 Training programme
• BDP2 Programme document, Inception Report and Proposed approach to IWRM training and capacity building
• EP existing materials on IBFM and other tools

7. Application procedures

Interested consultant(s) can apply either as a team or individually with clear indication of the position(s) that he/she applies for. MRC Special Service Agreements will be signed with individual selected consultants.

The application must include a cover letter outlining clearly how the candidate meets the requirements of the position. In addition to the cover letter, the applicant should include his/her detailed CV, three reference contacts and financial expectation.

Application should be send to:

Mekong River Commission Secretariat
P.O. Box 6101, Vientiane, 01000, Lao PDR
Email: mrsc@mrcmekong.org
Subject: Application for ....
### Basin Development Plan Programme Phase 2 (BDP2)

**INDICATIVE OUTLINE OF REGIONAL TRAINING COURSES**

<table>
<thead>
<tr>
<th>Proposed regional training course</th>
<th>Course objectives</th>
<th>Possible outline</th>
<th>Target participants</th>
<th>Duration/Timing</th>
<th>Available materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BDP2 Output 4.2 Knowledge and skills in scenario-based river planning and use of tools</strong></td>
<td><strong>Module 4.2A1 – Understand the role of scenarios in basin planning in MRB</strong>&lt;br&gt;- What is scenario? How scenarios are used in basin planning — simulation of existing scenarios in MRB&lt;br&gt;- BDP planning cycle&lt;br&gt;- BDP2 approach to basin-wide scenario formulation and assessment&lt;br&gt;- Use of knowledge base and tools&lt;br&gt;- Role of stakeholders</td>
<td>Members of RTWG Selected modeling and other experts who will participate in BDP2 scenario formulation and assessment</td>
<td>2 days</td>
<td>BDP1 MDBC brief introductory materials&lt;br&gt;BDP2 presentation</td>
<td></td>
</tr>
<tr>
<td>4.2A Introductory training on scenario-based planning and use of assessment tools</td>
<td>- To understand the role of scenarios in basin planning&lt;br&gt;- To understand the approach of scenario formulation and assessment and use of different tools in BDP2&lt;br&gt;- To understand how results of modeling works and assessment are translated into information for decision making&lt;br&gt;- To be able participate meaningfully in the process of scenario formulation and assessment of BDP2</td>
<td>Ditto Partner agencies working on SEA</td>
<td>1 to 2 days (can be organized separately as a training workshop)</td>
<td>Working with EP -</td>
<td></td>
</tr>
<tr>
<td><strong>Module 4.2A4 – SEA for IWRM-based basin planning</strong>&lt;br&gt;- What is SEA?&lt;br&gt;- How SEA is used in planning? Examples SEA that successfully influence decision making in South-East Asia&lt;br&gt;- How SEA principles have been used in BDP planning cycle</td>
<td>Members of RTWG Selected modeling and other experts who will participate in BDP2 scenario formulation and assessment</td>
<td>½ to 1 day</td>
<td>IKMP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Module 4.2A2 – DSF Introduction</strong>&lt;br&gt;- What is DSF?&lt;br&gt;- What DSF can and cannot do in basin-wide scenarios formulation and assessment&lt;br&gt;- Understanding the input-output flow of DSF modeling&lt;br&gt;- Interpreting results for decision making</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposed regional training course</td>
<td>Course objectives</td>
<td>Possible outline</td>
<td>Target participants</td>
<td>Duration/Timing</td>
<td>Available materials</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
<td>---------------------</td>
<td>----------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>- To understand the environmental, social and economic impacts of flow changes</td>
<td>Module 4.2A3 – Introduction on integrated flow assessment</td>
<td>The focus is to develop a good understanding of environment, social and economic impacts of flow changes caused by water resources development and how methodologies for social, economic and environmental analysis can be applied to understand these impacts to support decision making.</td>
<td>Members of RTWG Selected modeling and other experts who will participate in BDP2 scenario formulation and assessment</td>
<td>2 days</td>
<td>EP – existing and proposed training materials for integrated flow assessment</td>
</tr>
<tr>
<td>- To have basic knowledge on integrated flow assessment methodologies (E-flow, IBFM, etc)</td>
<td></td>
<td>- What is integrated flow assessment? Its contribution to IWRM and water-resources development scenarios. Review of global and regional experiences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- To understand how integrated flow assessment is used in BDP scenario assessment</td>
<td></td>
<td>- Mekong River basin overview: status and concerns, flow of the Mekong and links to the ecosystem</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- The MRC Integrated Flow Management – lessons learned and knowledge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Conducting integrated flow assessment using holistic approach and working in multi-discipline team to share information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module 4.2B1 – IBFM process and predictive tools for scenario assessment</td>
<td>To build knowledge and skills in designing and prioritizing multi-purpose water resources development projects</td>
<td>This requires further discussion with EP on the needs and feasibility</td>
<td>National and local government planners</td>
<td>3-5 days</td>
<td>To be further developed when project assessment criteria and tools are ready</td>
</tr>
<tr>
<td>2</td>
<td>To be further developed</td>
<td>Module 4.2B2 – IWRM Project design, screening and prioritization</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- To train on the application of BDP</td>
<td>- IWRM and the need for multi-purpose WRD projects</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Project planning in basin context: purpose, design,</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 In consultation with Modelling team of IKMP, it was not advised to provide in-depth training on DSF as DSF would require relevant background and certain set of skills. Such training will be very demanding and not needed given the available WUP and IKMP trained staff in NMCs and line agencies.
<table>
<thead>
<tr>
<th>Proposed regional training course</th>
<th>Course objectives</th>
<th>Possible outline</th>
<th>Target participants</th>
<th>Duration/Timing</th>
<th>Available materials</th>
</tr>
</thead>
</table>
| | assessment criteria and tools for project | consideration of transboundary impacts  
- Use of BDP project assessment criteria in project planning and management  
- Use of tools for project assessment: EIA, SIA and others | | | |
| **BDP2 output 4.4 – IWRM principles and approaches internalized at MRCS and NMC levels** | | | | | |
| 4.4A IWRM principles and good basin planning approaches | - To provide latest concepts of IWRM  
- To develop knowledge on the principles and practices of good basin planning  
- To build common IWRM approaches for basin development and management in LMB | Module 4.4A1 IWRM concept  
- Latest international literature and terminology on key elements of IWRM  
- The importance of IWRM in managing shared resources  
- IWRM challenges in the Mekong River Basin  
- Relationship with sustainable development, MDGs, etc  
- Learning from experiences of other international river basins | National and Sub-area level planners, Experts of NMCs, experts from national research institutions | 1 days | MDBC IRBM course in BDP1 UNESCO/IHE |
| | | Module 4.4A2 IWRM principles for a good basin planning framework  
- Principles and good practices of good basin planning  
- Sub-basin (sub-area) water management planning  
- National water management planning  
- Regional/River basin planning  
- Use of knowledge base and tools in basin planning  
- Role of different institutions in the BDP scenario-based planning cycle and decision making  
- Role of basin planners – understanding the role of the MRC | Experts from National line agencies, NMCs and local government agencies | 1 day | |
| | | Module 4.4A3 Stakeholder involvement in basin planning  
- Defining stakeholders and differentiating interests and values as inputs to decision making  
- Different approach for stakeholder involvement in | | 1 day | |
<table>
<thead>
<tr>
<th>Proposed regional training course</th>
<th>Course objectives</th>
<th>Possible outline</th>
<th>Target participants</th>
<th>Duration/Timing</th>
<th>Available materials</th>
</tr>
</thead>
</table>
| 4.4B Training of trainers (TOR) for IWRM planning at Sub-area level | To build a cadre of trainers in 4 Member countries (3 per each country) who can train Sub-area WG members and other local stakeholders on participatory IWRM planning  
- To support the implementation of BDP Sub-area activities as in line with Guidelines for Sub-area activities of BDP2 | **Module 4.4B IWRM planning at sub-basin level**³  
- Basic concepts of IWRM  
- Planning concepts and purposes: Sub-basin, National and River basin planning  
- Role of IWRM planning at sub-basin levels for basin planning  
- Use of scenarios for sub-basin level planning  
- Use of Planning guides: for updating Sub-area reports, for sub-area scenarios and IWRM strategies  
- Stakeholder involvement  
- Adult learning approaches and facilitation skills | Team leaders of SA contractors, NMCs, selected SA WG members, national trainers/facilitators | 5 days as early as possible | BDP2 Guidelines for SA activities |

| BDP output 4.6 – Capacity built within BDP to assist MRC in trade-off facilitation | 4.6A Understanding trade-offs in basin development planning context | To provide with basic concepts of trade-off and conflict resolution in basin planning process  
- To develop knowledge and skills to identify trade-off situations  
- To build shared vision for conflict resolution  
- To build initial analytical, negotiation and facilitation skills in trade off situations | **Module 4.6A Understanding trade-offs in basin development planning context**  
- Understanding Gains and Losses in water resources development: between sectors, between population groups, between riparian countries  
- Identify trade-offs situation in basin planning: interactive learning through examples of hypothetical basin-wide development scenarios assessment and analysis of gains and losses | MRCS and NMC staff, National planners and experts from key line ministries | End 2008 – early 2009 |

³ Many parts in this module can use the same materials of course 4.4A
<table>
<thead>
<tr>
<th>Proposed regional training course</th>
<th>Course objectives</th>
<th>Possible outline</th>
<th>Target participants</th>
<th>Duration/Timing</th>
<th>Available materials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>- Evaluating trade-offs situation vs shared vision</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Negotiation skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Use of knowledge base and tools for facilitation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6B Develop negotiation and facilitation skills</td>
<td>- To strengthen the facilitation skills of MRCS and NMC staff</td>
<td>To be further developed based on lessons learned from 4.6A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- To strengthen negotiation skills of national and local planners in the 4 Member countries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>