Regional Consultation on Post-Harvest

Rationale

Post-production operations account for more than 55 per cent of the economic value of the agricultural sector in developing countries and up to 80 per cent in developed countries. Although they are the basis of socio-economic development in rural areas and are of critical importance in meeting the food security and nutritional requirements of populations, relatively little public sector and developmental support is targeted to address these fundamental concerns and the growing and changing trends within the sector. The Consultative Group on International Agricultural Research (CGIAR) for example has less than 4% of its total funding allocated to post-harvest development.

Three decades have elapsed since the last major conference geared toward soliciting developmental support for the post-production sector. The focus then was on the reduction of post-harvest losses. Considerable growth in the sector, as well as changes in market demands and trade regulations point to the increasingly important dimension of produce and product quality, if developing countries are to gain advantages from the safety, security and potential trade benefits of a stable food supply. By and large, this growth and change is very poorly supported by developmental policies and strategies, and technical capacity within the sector remains very weak.

In recognition of these deficiencies in policies, strategies, and technical and financial inputs to address the fundamental and growing concerns of the post-harvest sector, the Agro-Industries and Post-Harvest Management Service of FAO (FAO/AGSI) with the endorsement of Ph-Action1, embarked upon launching an international initiative geared toward facilitating development within the post-harvest sector of developing countries. This initiative will be implemented in two-phases:

- **Phase 1**- Developing a global perspective of the post-harvest sector, through the planning and implementation of five coordinated technical regional workshops.
- **Phase 2**- Conducting a five-day International Technical Consultation on Post-Harvest, with the objective of launching a Global Initiative on Post-Harvest Technology (GIPhT).

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1 [ACIAR, CIAT, CIP, CIRAD, FAO, IITA, IPGRI, IRRI, JIRCAS GTZ, NRI]
Project Brief

Phase I Activities: An Appraisal

FAO-GFAR Collaboration

GFAR is a stakeholder-led initiative aimed at promoting and facilitating research and development partnerships in key areas of agricultural and rural development. The collaboration of FAO/AGSI with GFAR in the conduct of these Workshops is based upon recognition by GFAR stakeholders of the critical importance of the post-harvest sector and of the need to increase local value-added through the development of rural agro-industries based on a commodity approach, as discussed at the GFAR-2000 Conference in Dresden, Germany. It is also justified by the high priority given to post-harvest development by the Regional/Sub-regional Fora (RF/ SRF), in particular the NARS, which have emphasized the importance of the role of the post-harvest system in assuring the effective contribution of the agricultural sector to economic growth.

Five coordinated technical regional workshops will be conducted by the FAO-GFAR Regional Workshops in: Sub-Saharan Africa (sponsored by FARA), Latin America and the Caribbean (sponsored by FORAGRO), West Asia and North Africa (sponsored by AARINENA), Asia/Pacific (sponsored by APAARI), and Central Asia and the Caucasus (sponsored by the CAC Regional Forum). Stakeholders will be mobilized for this purpose within each Regional Forum. Preparation for and implementation of each Workshop will be co-ordinated by the respective Regional Forum that works within the GFAR framework.

Each respective Regional Forum for Agricultural Research will work in conjunction with its Sub-Regional Fora (SRF) on the organisation and implementation of a 3-day Regional Workshop.

FAO/AGSI will fully fund the implementation of Phase 1 activities, which will be executed in collaboration with the Global Forum for Agricultural Research (GFAR), during 2001. The budget for Phase I per Region is US$40,000.00. Funding is however currently being solicited in support of implementing Phase 2 Activities.

Phase II Activities: Launching of the Global Initiative on Post-Harvest Technology (GIPH&T)

This will be highlighted by a five-day International Technical Consultation on Post-Harvest which will give way to the implementation of GIPH&T and to solicit financial commitment from private sector, donor, and development agencies in support of the GIPH&T

THE ASIA PACIFIC REGIONAL WORKSHOP

The Asia Pacific Regional Consultation on Post-harvest will be undertaken under the sponsorship of the Asia Pacific Association of Agricultural Research Institutions (APAARI) and the coordination of two institutions in the Region.

Coordinating Institution

The SEAMEO Regional Center for Graduate Study and Research in Agriculture (SEAMEO-SEARCA) through the Agro-Industrial Development Program (AIDP) of the Research and Development Department (RDD) in partnership with the Post-Harvest Technology Center (PHTC) at Ho Chi Minh City

SEARCA and PHTC share a vision of being involved in the regional planning of the post-harvest sector and in enhancing its development for improved post-harvest systems that will guarantee the effective contribution of the agricultural sector to economic growth.

Tapping institutions in the Region that are already familiar with the post-harvest set-up and have established network will help facilitate objective realization.

SEARCA as a regional center has the network to solicit participation and support of ASEAN member countries as well as its associate member countries. It currently serves as the coordinating body of the ASEAN/APEC Postharvest Conference, already on its 20th and 2nd run respectively as every other year gathering of post-harvest stakeholders, the conference serves as a venue to for international gathering to discuss current research and development on perishable agricultural commodities for the closer promotion of cooperation among researchers in the Region and for the planning for future postharvest developments. With this, SEARCA will act as the Regional Coordinator of the proposed regional consultation on post-harvest.

The PHTC, while a newly instituted quasi government post-harvest institutions is headed by a founding director of Postharvest Training Institute (PHTI) and has actual and hands-on experience on post-harvest activities will serve as the co-organizer of the proposed regional consultation on post-harvest.

Objectives

An appraisal of the current status of the post-harvest sector from both institutional and stakeholder perspectives in developing countries is of paramount importance to the identification of the problems, potentials and constraints of the sector. It would also provide a basis for initiating the development of an action plan geared toward facilitating these countries in keeping abreast of the changing requirements of the sector, while fulfilling their fundamental objectives of maintaining a safe, secure, and stable food supply. It is within this context that FAO/AGSI, in collaboration with GFAR, embarked upon the planning and implementation of five Technical Regional Workshops.
This Asia Pacific, one of the Regional Consultation on Post-harvest aims to identify the present challenges and opportunities that the post-harvest sector faces in each region and will serve as the basis in contributing to the formulation of a regional strategy.

This Workshop seeks to:

- Identify and analyze the problems, potentials and constraints of the post-harvest sector in each region;
- Assess the technical, organizational, institutional, and information needs of the post-harvest sector in each region;
- Identify major areas for improvement and development
- Prepare a regional Strategy for post-harvest
- Identify concrete follow-up actions to be undertaken for implementation of this strategy

Information derived from this Workshop together with the four others will be used as a basis for the development of a GIP/T and a plan of action for its implementation. The development of Concrete Action Proposals by these Workshops is therefore critical.

All background documents together with the results and recommendations of each Workshop, as well as a strategy for development of the post-harvest sector at the regional level, will be compiled and documented in a Workshop Report which will be prepared in accordance with the outline in Annex 1.

Regional Consultation Participants

Participants for the Regional Consultation on Postharvest should be major stakeholders of agricultural research and agro-industrial development. The expected participants are most likely with diverse backgrounds from individuals acquainted with the post-harvest sector, those associated with policy development, food safety and nutrition, small-scale-agribusiness, socio-economists, information specialists, marketing and regional development bank representatives, NGO, consumer group representative, educators, researcher, post-harvest scientists from various Ministries of Agriculture and Research Centres. (Annex 3)

Activities

a. Selection of venue (country and location) and date of workshop  
b. Identification and selection of consultant, who will prepare and present a sub-regional status report at the Regional Workshop.  
c. Supervision of consultant who will prepare the sub-regional reports  
d. Identification of potential participants from FAO member countries in the Region.  
e. Clearance of letter of invitation from FAO/AGSI through GFAR Secretariat  
f. Issuance/sending of workshop invitations at least six weeks before the workshop  
g. Confirmation/follow-up of invitees
h. Collection of 5-10 page document on specific topic by FAO-sponsored participants.

i. Submission of background documents (hard and electronic copies) – two weeks before the workshop to FAO/AGSI

j. Arrangement of travel and accommodation for Workshop participants and inform both the FAO Sub-Regional Representation and FAO-AGSI of travel arrangements.

k. Prepare a regional summary report for action that will be presented and discussed at the Regional Workshop

l. Oversee the organization of the Regional Workshop

m. Preparation and submission of Regional Workshop Report

**Target Date: 1st week of December 2001**

<table>
<thead>
<tr>
<th>Activities</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection of Venue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identification and Selection of consultant</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Identification of potential participants</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Clearance of letter of invitation from FAO/AGSI through GFAR Secretariat</td>
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<td></td>
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<tr>
<td>Issuance of Invitation</td>
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<td></td>
<td></td>
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<tr>
<td>Collection of documents from FAO sponsored participants</td>
<td></td>
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<td></td>
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<tr>
<td>Submission of background documents to FAO/AGSI</td>
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<td></td>
<td></td>
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<tr>
<td>Arrangement of travel and accommodation</td>
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<tr>
<td>Workshop Proper</td>
<td></td>
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</tbody>
</table>

**Workshop Outputs**

At the end of the Workshop, the expected outputs are as follows:

- Strategy for development of the post-harvest sector at the regional level will be formulated and will be the basis for the action plan development of GIP/iT.
• List of postharvest experts and summary of on-going post-harvest projects/initiatives in the Region

• Workshop proceedings including background documents (sub-regional papers, stakeholder papers, and regional summary report), working group reports, discussion papers; both hard copy and electronic format.
Schedule of Activities

<table>
<thead>
<tr>
<th>DAY 1</th>
<th>DAY 2</th>
<th>DAY 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Morning</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Afternoon</strong></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>10. Closing Session</td>
</tr>
</tbody>
</table>

* Themes for working groups will be developed on the basis of discussions throughout the Workshops.

Follow-up Activities (Phase II)

To sustain the gains of Phase I activities, FAO/AGSI with GFAR have identified projected activities for phase 2 of the post-harvest initiative need to be further developed. These activities are currently foreseen to include:

- The preparation of regional synthesis documents based on information derived from Regional Technical Workshops and information solicited from various other interested parties. These synthesis documents will be used as background papers to technical presentations at an International Technical Consultation on post-harvest.

- The development of a website for dissemination of this information.

- The conduct of e-mail conferences.

- The preparation of a plan of action for a GIPhT
• The implementation of an International Technical Consultation on Post-Harvest, the primary of objectives of which are:
  a. To create an improved international awareness of the breadth of the post-harvest sector and the importance of its contribution to socioeconomic development in developing countries;
  b. To explore and highlight technical and policy issues which impact upon growth and change within the sector;
  c. To develop a vision and a plan of action for implementation of a GIPhT;
  d. To obtain firm financial commitment from private sector, donor and development agencies in support of the GIPhT.

FAO is currently in the process of soliciting funding in support of preparation for, and implementation of Phase 2 activities.
### Budget

<table>
<thead>
<tr>
<th>Description</th>
<th>US $</th>
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</thead>
<tbody>
<tr>
<td>Workshop venue (SEARCA Guest House)</td>
<td>200.00</td>
</tr>
<tr>
<td>Equipment</td>
<td>600.00</td>
</tr>
<tr>
<td>Accommodation (US $ 20/pax)</td>
<td>1,800.00</td>
</tr>
<tr>
<td>Meals (US $15/day)</td>
<td>1,800.00</td>
</tr>
<tr>
<td>Airport Transfers and local transpo.</td>
<td>800.00</td>
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<tr>
<td>Supplies</td>
<td>800.00</td>
</tr>
<tr>
<td>Plaques</td>
<td>300.00</td>
</tr>
<tr>
<td>Workshop kit</td>
<td>1,000.00</td>
</tr>
<tr>
<td>Consultants (fee) if 3 x US$2,000.00</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Regional Coordinator</td>
<td>5,000.00</td>
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<td>Travel of 20 participants</td>
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</tr>
<tr>
<td>Administrative Cost (10%)</td>
<td>3,630.00</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td>13,300.00</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td>36,300.00</td>
</tr>
</tbody>
</table>
| **Total**                                                       | **39,930.00**

**Assumptions:**

- Participants = 20 (Asia Pacific countries)
- Consultants = 3
- Guests = 15

DSA (daily subsistence allowance) will be paid by FAO, therefore not included in the budget.
SEARCA as the Regional Coordinator has the following terms of reference:

- Assist the Secretariat of the Regional Forum (RF), or the specialized institution identified by the RF among its members, in the organization of the regional consultation process in each region;
- Co-ordinate the preparation of *Sub-regional papers on the state of the post-harvest sector*, assuring that these papers address the main issues to be analyzed (see Annex 2);
- Prepare the *Regional Summary Report* which will integrate and highlight key issues derived from the individual sub-regional reports (Annex 2);
- In co-operation with the secretariat of the respective Regional Forum and the GFAR Secretariat, assist in the organisation of the Regional Post-Harvest Workshop and serve as the Workshop moderator;
- Prepare the final Workshop Agenda in consultation with the Secretariat of the Regional Forum, on the basis of the proposed general agenda presented in Annex 5. The final agenda should be cleared with the GFAR Secretariat and with FAO/AGSI;
- Provide FAO/AGSI with a list of post-harvest experts and a summary of on-going post-harvest projects/initiatives in the Region;
- Compile the proceedings of the Workshop. The compilation of the proceedings should be presented to FAO/AGSI in both hard copy and electronic format no later than one month after the regional workshop. It will include all background papers; working group reports, discussion papers, and a Regional Strategy developed on the basis of discussions and deliberations during the Workshops. Workshop proceedings will be presented in accordance with the outline in Annex 1.
Annex 1 -
Table of Contents for Regional Workshop Reports

1. FOREWORD
2. EXECUTIVE SUMMARY
3. BACKGROUND AND OBJECTIVES OF THE WORKSHOP
4. FAO PRESENTATION
5. SUB-REGIONAL STATUS REPORTS
6. STAKEHOLDER REPORTS
7. WORKING GROUP REPORTS
8. REGIONAL STRATEGY and RECOMMENDATIONS FOR FURTHER ACTION
9. ANNEXES
   Addresses
   List of participants
   Agenda
Annex 2 - Terms of Reference for the Preparation of Background Papers to the Regional Post-harvest Workshops

3.1 Background Documents

As discussed in Section 4, three categories of background documents will be prepared for the Workshops: Sub-Regional Reports; Stakeholder papers and a Regional Summary Report. These papers should be as comprehensive as possible, since they will be used as a basis for developing: regional synthesis reports; synthesis reports on specific issues or areas of concern within the post-harvest sector as well as regional strategies. As previously discussed, information derived from these Workshops will be used as a basis for development of an action plan for the development of a GIPH/T.

3.2 Sub-regional Reports

Consultants will be contracted by the Regional fora to prepare sub-regional papers on the status of the post-harvest sector in each sub-region. These Sub-regional reports will be prepared on the basis of existing reports (secondary data) and on the basis of the consultant’s knowledge of the sub-region. No primary data will be collected for these papers. The sub-regional papers are expected to cover the topics/issues described in Section 3.4.

The primary objective of the sub-regional papers is to provide an appraisal of the current status of the post-harvest sector at the sub-regional level. These papers will provide a basis for discussions during the Regional Workshops, leading to:

- An assessment of the technical, organisational, institutional and information needs of the post-harvest sector in the sub-region;
- identification of major areas for improvement and development;
- projection of the roles which can be played by various actors and stakeholders in the development of the post-harvest sector in the sub-region;
- identification of concrete follow-up actions to be undertaken in responding to the challenges and opportunities identified in the analysis.

These reports are expected to be 10-15 pages in length, and to address all critical issues succinctly and concisely, in accordance with the thematic outline presented in Section 3.5 of this Annex.
3.3 Regional Summary Reports

The Regional Coordinator will summarise and highlight key issues presented in the individual sub-regional reports into a Regional Summary Report. In so doing, the Regional Consultant will seek to highlight two important issues emerging from these sub-regional reports:

a) Important trends, challenges and opportunities that emerge from the analysis done in the sub-regional reports;
b) Concrete proposals for action aimed at addressing these challenges and opportunities.

An initial version of the Regional Summary Report will be presented to each Regional Workshop. This paper will then be updated in accordance with discussions that will take place during the respective workshops, and revised accordingly. This paper will be incorporated into the Workshop proceedings, which will be prepared in accordance with the outline in Annex 6.

3.4 Stakeholder Papers

Stakeholders of agricultural research and agro-industrial development will be invited to participate in the respective Regional Workshops, and will be requested to present short discussion papers on the main challenges and opportunities to the post-harvest sector. Stakeholders include policy-makers, government representatives (Ministries of Agriculture), researchers, educators, farmers’ or producers’ associations, NGOs, processing, marketing institution representatives, food safety and nutrition agencies, consumer groups and regional development banks (Annex 4). FAO/AGSI will support the participation of key stakeholders in the Workshops, by sponsoring their participation through funds, which it will make available to the Regional Fora through the GFAR Secretariat.

Stakeholder Papers are expected to be of 5-10 pages in length, and will be presented to the Regional Workshop in order to stimulate discussion as well as to give perspectives on post-harvest from the point of view of each stakeholder. They should be written in a thought-provoking manner, but should be concise and succinct. Their content will depend on the topics/issues that each stakeholder feels should be addressed in the strengthening of the post-harvest sector.
3.5 Topics/Issues to be covered by the Sub-regional Papers

The following topics should be covered, depending on the availability of information. These papers are expected to provide a concise discussion of the main issues involved.

General Introduction

Overview of the Sub-Region
- countries
- common characteristics of these countries
- categories of food crops grown (cereals, fruit and vegetables, roots and tuber, spices, ornamentals)
- Relative importance of these food crops in the sub-region:
  - contribution to employment
  - contribution to GDP, income & poverty alleviation
  - contribution to nutrition and food security

Part I - Current Status of the Post-harvest Sector

1. General overview of the post-production chain (from field to the plate) for the various categories of food crops grown:
   - Level and scale of production and post-harvest activities (small/medium/large scale farming, contract farming);
   - Markets targeted:
     - Type: fresh produce vs. various levels of processing (primary and/or secondary processing);
     - Location: rural, national, regional, international;
     - Specialised or niche markets.

2. Technical Issues:

(a) Overview of technologies applied at major steps of the post-production chain for each crop category, destined for each target market (include flow diagrams which link the post-harvest operations/steps in an appendix):
   - level and scale of post-harvest technologies applied for each target market and crop category;
   - Availability of and access to these technologies.

(b) Research & Development and other technical support services accessible by the post-harvest sector:
   - types of technical support available (research, extension service, product development, analytical services);
   - type & level of research (basic/fundamental, applied);
   - sources of support (government, private sector, development agencies);
• Availability of specialised post-harvest units & centres.

(c) Quality management systems and their applicability to each target market:
• availability of quality standards (including product specifications/attributes);
• Quality Assurance, including Quality Control procedures;
• Traceability.

(d) Human resources in post-harvest science & technology
• level of education and training of post-harvest personnel;
• Major knowledge gaps and training requirements.

3. Physical Infrastructure:

Access to, availability of, and relative cost and reliability of: (a) transport (road networks, railways, airways, seaways); (b) postal services; (c) power; (d) water; (e) market facilities; (f) wholesale facilities; (g) storage facilities for rural small, medium and large-scale production.

4. Institutional & Socio-economic Issues:

(a) Government policies in support of the Post-harvest Sector: credit facilities & incentives, price control, promotional measures, extension services & training;

(b) Level of organisation within the sector:
• cooperatives & villages associations
• farmer organisations
• agribusiness organisations (formal/informal)

(c) Gender & equity issues:
• gender roles in the Post-harvest Sector;
• identification of factors which may be influenced by gender and which impact on the Post-harvest Sector (e.g. access to capital & credit, training).

(d) Educational & Research institutions, Training & Extension facilities:
• types of institutions servicing the region;
• services provided (comment on the availability of post-harvest components);
• access to these services (location, availability, cost, who pays).

(e) Credit and Financial Institutions:
• banks, credit unions/societies;
• services available to rural small-scale farmers (loans, etc).

(f) Market Institutions & Marketing Systems:
• Market and marketing intelligence capabilities in the region for various products;
• types of channels (fresh produce, minimally processed, fully processed);
• level of market-orientation vs subsistence;
• various channels and organizations for marketing produce in the Region;
• the role of the government (e.g. through legislation, Marketing Boards, Government-based Marketing Companies, etc);
• trade issues in the Regions (e.g. market access and regulatory matters);
• impact of urbanisation and regionalism of commodity trading.

(g) Information technology & information sharing:
• level of networking (see b. above) in the sector;
• access to the Internet;
• access to books, scientific journals and periodicals).

Part II - Opportunities and Constraints to the development of the Post-harvest Sector

On the basis of the previous analysis, this second part will highlight the key constraints, opportunities and proposed priorities for the development of the post-harvest sector in the region. This section should cover issues such as:

1. Summary of constraints to the development of the post-harvest sector
2. Agribusiness opportunities in the post-harvest sector
3. Priorities for the development of the post-harvest sector (based principally on the analysis in 1 & 2 above. This could include issues pertaining to (among others):
   • research and development
   • education and training
   • extension services
   • finance and credit facilities
   • post-harvest infrastructure
   • organisation of farmers
   • information requirements
   • policy development
4. Conclusions and recommendations, with emphasis on concrete proposals for joint action among the interested stakeholders.

Part III - References & Appendices

1. Literature cited
2. Appendices containing all relevant data and their sources used to prepare the Background Paper.
Annex 3
Conditions to be met by FAO-sponsored Participants

As pointed out in Section 3.4 of Annex 3, major stakeholders of agricultural research and agro-industrial development will be invited to participate in the respective Regional Workshops. Each stakeholder will be requested to prepare a 5-10 page discussion paper highlighting the main challenges and opportunities faced by the post-harvest sector, within his/her area of specialisation. He/she will be invited to make a 10-minute presentation on the basis of that paper, during the Workshop. Financial support will be provided, in order to assure the participation of key stakeholders in each regional Workshop. The paper must be submitted to the Regional Co-ordinator two weeks prior to the Workshop.

FAO-sponsored stakeholders will come from a diversity of backgrounds, but should be well acquainted with the post-harvest sector and will include individuals associated with policy development (2); food safety and nutrition (1); small-scale agribusiness (2); socio-economists (1); information specialists (1); marketing (2); Regional Development Bank Representatives (2); NGO (1); Consumer group representative (1); Educators (1); Researcher (1); Post-harvest Scientists from various Ministries of Agriculture and research centres (2-5).

The following are proposed topics for discussion papers to be solicited from the various categories of stakeholders

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing</td>
<td>Marketing trends; Product Quality</td>
</tr>
<tr>
<td>MOA Representatives</td>
<td>Overview of post-harvest treatment of a specific crop of importance to the country of origin of the and potentials (e.g. cassava, bananas)</td>
</tr>
<tr>
<td>Policy maker</td>
<td>Globalisation and its impact on post-harvest (2)</td>
</tr>
<tr>
<td>Development Bank and Consumer Group for Food Safety and Nutrition</td>
<td>Globalisation and its impact on post-harvest; Relevance importance of Post-harvest Indicators</td>
</tr>
<tr>
<td>Socio-economist</td>
<td>Trends in food consumption patterns and their implications the post-harvest sector</td>
</tr>
<tr>
<td>Agribusiness Reps</td>
<td>Trends in Food consumption patterns-implications for food safety and nutrition-role of the post-harvest sector</td>
</tr>
<tr>
<td>NGO</td>
<td>Relevance and importance of post-harvest indicators</td>
</tr>
<tr>
<td>Educator</td>
<td>Role of private sector in post-harvest development in the regions</td>
</tr>
<tr>
<td>Researcher</td>
<td>Meeting the information requirements of all target groups within the post-harvest sector</td>
</tr>
</tbody>
</table>

SEAMEO SEARCA August 2001
Currently, APAARI includes 16 member countries from South Asia, Southeast Asia, Northeast Asia and the Pacific*.

1. Australia
2. Bangladesh
3. Fijo
4. India
5. Iran
6. Japan
7. Malaysia
8. Nepal
9. Pakistan
10. Papua New Guinea
11. Philippines (PCARRD and BAR_
12. Republic of Korea
13. Sri Lanka
14. Taiwan
15. Thailand
16. Vietnam
17. Western Samoa

* Efforts have been made to persuade China, Indonesia, Laos and Bhutan to become full time members. New Zealand was also approached to consider rejoining the APAARI.