
Dear Sir,

We invite your kind attention to NPC www.npcindia.gov.in/apo-international-programmes/, with regard to above Asian Productivity Organization (APO) project. The project notification and the APO bio data form are available on the above mentioned page and the same are also attached herewith. The duly filled in single copy of Performa enclosed of the suitable officers for participation as per the para (Qualifications for Participants) of the project notification may kindly be forwarded to reach us latest by 14th February, 2020. In this regard, the following points may be noted.

- **Financial Arrangement**

In the case of ‘not-for-profit’ organization & SMEs, round trip economy class international airfare by the most direct route from the international airport nearest to the participant’s place of work, hotel accommodation and the per diem allowances of the participants will be met by Asian Productivity Organization APO, Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF), Japan, as per project notification issued by APO.

However, the travel insurance and visa fees are to be borne by the participant.

In case of withdrawal of participation from the said program, subsequent to selection, the cancellation charges towards hotel accommodation, airline ticket etc. will borne by the participants/participants organization.

- **Fees and Charges**

An Application fees (NON-REFUNDABLE)of Rs. 500/- 18% GST for MSME Sector, Trade Unions and NGO’s and Rs. 1000/- 18% GST for others is payable along with the nomination form, for each participant.

In case of selection by APO, NPC will charge Rs. 3,000/- 18% GST for MSME Sector, Trade Unions and NGO’s. Rs. 12,000/- 18% GST for profit making organizations and Rs. 6,000/- + 18% GST for others per participant is payable towards handling charges and membership fee for the APO Alumni Association of India (AAAII).

The requisite amount can be paid through a demand draft/cheque/ECS drawn in favour of National Productivity Council, New Delhi. In the absence of application fee, the nominations will not be considered. Kindly e-mail the details of the ECS/RTGS/NEFT payment made on isg@npcindia.gov.in. In this regard, the bank account details are attached herewith.
Nomination Procedure

All nominations should be routed through proper channel and as per the attached APO bio data form. The nominations received after the last date will not be considered. It is the responsibility of the candidates to complete all the official formalities required by their organizations/department before proceeding abroad.

It is requested to send nominations by e-mail (application in prescribed excel format) and one hard copy by post along with the covering letter of the competent authority on company's letter head. All information pertaining to nominations will be treated as confidential and classified. The nominated officers may be invited as a faculty in programs on the relevant subject/s, organized by NPC.

We look forward to receiving of nominations from your esteemed organization.

Thanking you,

Yours faithfully,

(K.D. Bhardwaj)
Director & Head (Int'l Serv.)
for Director General
e-mail: isg@npcindia.gov.in
# PROJECT NOTIFICATION

<table>
<thead>
<tr>
<th>PN Issue Date</th>
<th>18 October 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Code</td>
<td>19-AG-30-GE/SPP-OSM-A</td>
</tr>
<tr>
<td>Title</td>
<td>Multicountry Observational Study Mission on Emerging Models of Controlled-environment Agriculture</td>
</tr>
<tr>
<td>Timing and Duration</td>
<td>8–12 June 2020 (five days)</td>
</tr>
<tr>
<td>Venue</td>
<td>Tokyo, Japan</td>
</tr>
<tr>
<td>Implementing Organization(s)</td>
<td>APO Secretariat</td>
</tr>
<tr>
<td>Maximum Number of Overseas Participants</td>
<td>Up to 18 qualified participants</td>
</tr>
<tr>
<td>Maximum Number of Local Participants</td>
<td>Up to six qualified participants</td>
</tr>
<tr>
<td>Closing Date for Nominations</td>
<td>6 March 2020</td>
</tr>
</tbody>
</table>
1. Objectives

The objective of this study mission is to expose participants to emerging controlled-environment agriculture models in the host country, including advanced greenhouses and plant factories, and promote those models in member countries. This objective is important to enhance the productivity and competitiveness of agriculture in the Asia-Pacific.

This study mission will expose participants to state-of-the-art environmental control technologies in agriculture which utilize sensors and the Internet of Things (IoT). Follow-up action plans will be formulated by participants on how to adopt the best practices, models, and technologies learned about during the study mission for promoting controlled-environment agriculture in their countries.

2. Background

The prices of perishable farm produce such as vegetables and fruit fluctuate depending on their seasonal supply. It is important to ensure a stable supply of perishables to meet consumers’ needs and maintain producers’ incomes. Controlled-environment farming allows crop cultivation regardless of weather conditions and season, thus extending growing and harvesting periods.

Technologies for controlled-environment farming increase crop quality and yields. Thanks to advances in sensors and the IoT, environmental control technologies in agriculture have improved. Automated greenhouses and plant factories make total control of the crop growth environment possible. Not only temperature and water but also CO₂ and light can be artificially regulated, and such farming practices allow precise control of the quality and quantity of harvests.

Controlled-environment farmers need to be familiar with management technologies. Compared with natural cultivation, controlled-environment agriculture is more costly. Sound financial planning taking costs and benefits into account is therefore crucial for its success.

This study mission will expose participants to successful examples of controlled-environment farming in Japan and provide opportunities to learn about the associated management technologies.

3. Scope and Methodology

The tentative modules to be covered are:

a. Controlled-environment agriculture models;

b. Management techniques and technologies for safer, better-quality produce; and

c. Applications of smart technology in controlled-environment agriculture for greater efficiency and productivity.

The study mission will consist of site visits and presentations by resource persons. The tentative program is given below (to be finalized in consultation with the resource persons):

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, 7 June</td>
<td>Arrival of participants in Tokyo</td>
</tr>
<tr>
<td>Monday, 8 June</td>
<td>Opening session</td>
</tr>
<tr>
<td></td>
<td>Orientation session</td>
</tr>
<tr>
<td></td>
<td>Presentation: Japan Greenhouse Horticulture Association</td>
</tr>
<tr>
<td>Tuesday, 9 June</td>
<td>Visit 1: Basics of artificial environmental control in horticulture</td>
</tr>
<tr>
<td>Wednesday, 10 July</td>
<td>Visit 2: Plant factory complex</td>
</tr>
<tr>
<td>Thursday, 11 June</td>
<td>Visit 3: Next-generation greenhouse horticulture project</td>
</tr>
<tr>
<td>Friday, 12 June</td>
<td>Group discussion to exchange information among participants</td>
</tr>
<tr>
<td></td>
<td>Closing ceremony</td>
</tr>
<tr>
<td>Saturday, 13 June</td>
<td>Departure of participants</td>
</tr>
</tbody>
</table>
4. Qualifications of Candidates

The participants are expected to possess the following qualifications:

**Present Position**
Government officials, policymakers, executives of farmers/agribusiness associations, academics, consultants, and extension officers in charge of controlled-environment agriculture.

**Experience**
At least three years of experience in the position described above.

**Education**
University degree or equivalent qualification from a recognized university/institution.

**Language**
All proceedings of the project are conducted in English, and participants are frequently required to make oral and written presentations. They must therefore be proficient in spoken and written English. Those who are not proficient in English will not be accepted.

**Health**
Physically and mentally fit to attend an intensive project requiring participants to complete a number of individual and group activities and strenuous fieldwork. It is therefore recommended that member countries do not nominate candidates likely to suffer from physical and mental stress.

**Age**
Candidates who fit the above profile are typically between 30 and 58 years of age.

**Attendance**
Participants are required to attend the entire program.

5. **Requirements** (applicable to those who attend study missions)

Participants are required to undertake preparatory work such as writing country papers prior to departure for the project venue.

All participants are required to prepare and submit action plans to the APO and to share them with their NPOs within one month after attending the project. The participants are also required to submit postproject follow-up reports six months after project completion to document the achievement of outcomes of the project. The NPOs will monitor the follow-up actions and report submission by participants.

The "Guidelines for Project Preparatory Work and Postproject Activity" will be provided in the project circular.

5-1. **Repeat Participants (who attended previous APO projects and are applying for another)**

a. In the Candidate’s Biodata form (application form), candidates are required to provide details of follow-up actions taken after attending a previous APO project(s) and outcomes (benefits) of those activities.

b. Candidates are also required to state in the Candidate’s Biodata form whether they submitted a report on their follow-up actions.

5-2. **All Participants**

a. In the Candidate’s Biodata form, candidates are required to list their expectations from the project and planned postproject actions/activities. This is a tentative list, which participants are free to revise or replace after attending the project (as in item b below).

b. All participants are required to develop and submit final follow-up action plans within 10 working days of project completion, in the format to be provided by the APO Secretariat later.

c. All participants are required to submit reports on the follow-up actions taken within six months (or a period specified for a particular project) of project completion.
d. The reports on follow-up actions are separate from the trip reports participants usually submit to their organizations/NPOs immediately after returning from project venues. The report format will be provided before project completion.

6. Financial Arrangements

6-1. Airfare
The APO will meet the cost of round-trip economy-class international airfare between the international airport nearest to the participants’ place of work and Tokyo, Japan, from organizations in any of these categories:
   a. SMEs;
   b. Nonprofit organizations; and
   c. Any organization from the APO list of LDCs.*
   *As of 7 July 2006, the APO list of LDCs comprised Bangladesh, Cambodia, Fiji, Lao PDR, Mongolia, and Nepal.

Participants should note that the arrangements for the purchase of air tickets should follow the “Guide on Purchases of Air Tickets for APO Participants,” which will be sent to the selected participants and is also available on the APO website and from APO Liaison Officers in member countries.

6-2. Participating Country Expenses (PCEs)
PCEs payable to the APO do not apply to organizations in any of these categories:
   a. SMEs;
   b. Nonprofit organizations; and
   c. Any organization from the APO list of LDCs.*
   *As of 7 July 2006, the APO list of LDCs comprised Bangladesh, Cambodia, Fiji, Lao PDR, Mongolia, and Nepal.

6-3. Insurance Coverage
Participants’ insurance premiums: All participants should be fully insured against accident and illness (including hospitalization and death) for a principal sum equivalent to USD10,000.00 for the entire duration of the project and travel and must submit to the APO Secretariat a copy of the comprehensive travel insurance certificate before participation. Such insurance should be valid in the host country. This insurance requirement is in addition to existing government insurance coverage in some member countries. Neither the APO nor the implementing organization will be responsible for any eventuality arising from accident, illness, acts of war, force majeure, or any unexpected events beyond human control such as those related to natural disasters.

6-4. Cost Sharing
Subject to the conditions stated in the Financial Arrangements section, the following table shows the cost-sharing arrangements between the APO, Ministry of Agriculture, Forestry and Fisheries (MAFF) of Japan, and participants or participating countries.

<table>
<thead>
<tr>
<th>Cost item</th>
<th>Participants or participating countries</th>
<th>APO/SPP¹</th>
<th>APO/GE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round-trip economy-class international airfare (refer to paragraph Airfare for conditions)</td>
<td>Conditions apply</td>
<td>No</td>
<td>Conditions apply</td>
</tr>
<tr>
<td>Participating Country Expenses (PCEs) (refer to paragraph PCEs)</td>
<td>USD50 per participant</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Hotel accommodation at the venue</td>
<td>No</td>
<td>Yes²</td>
<td>Yes³</td>
</tr>
<tr>
<td>Per diem allowance at the venue</td>
<td>No</td>
<td>Yes²</td>
<td>Yes³</td>
</tr>
<tr>
<td>Transportation costs to and from hotel and airport at the venue</td>
<td>No</td>
<td>Yes²</td>
<td>No³</td>
</tr>
<tr>
<td>Insurance coverage in Japan (refer to paragraph Insurance Coverage)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Any expenses related to visa fees and airport taxes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Cost item</td>
<td>Participants or participating countries</td>
<td>APO/SPP(^1)</td>
<td>APO/GE</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-----------------------------------------</td>
<td>---------------</td>
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</tr>
<tr>
<td>All expenses incurred by participants for any reason including but not limited to:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Stopovers</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>b. Extension of stay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Early arrival or late departure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Flight cancellation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any cancellation charges for expenses such as airfare and accommodations incurred by the APO or host country after issuance of Letters of Acceptance</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Assignment costs of international resource persons</td>
<td>NA</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Assignment costs of local resource persons</td>
<td>NA</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>All local implementation costs including but not limited to:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Meeting rooms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Documentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Preparatory costs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note (special conditions):
1. This project is funded by a special cash grant from MAFF of Japan.
2. The MAFF grant will cover hotel accommodation, per diem allowance, and transportation costs for up to 15 overseas participants for up to six days at the rate to be specified later, excluding those from the Republic of China, Republic of Korea, and Singapore.
3. The APO will meet hotel accommodation, per diem allowance, and transportation costs for participants from the Republic of China, Republic of Korea, and Singapore and for any additional overseas participants for up to six days at the rate to be specified later when more than 15 participants are selected.

7. Actions by Member Countries

a. Each participating country is requested to nominate three or more candidates in the order of preference. Please ensure that candidates nominated meet the qualifications specified under the section Qualifications of Candidates above.

b. No form of self-nomination will be accepted. All nominations must be endorsed and submitted by an APO Director, Alternative Director, Liaison Officer, or their designated officer.

c. Please note that nomination of a candidate does not necessarily guarantee that he/she will be selected. Selection is at the discretion of the selection committee of the APO Secretariat. A basic criterion for selection is the homogeneity of the participants in terms of qualifications and work experience. Nonselection therefore does not mean that the candidates concerned are not competent enough. Sometimes candidates are not selected because they are overqualified for a project.

d. Each nomination should be accompanied by the necessary documents. A nomination lacking any of these documents may not be considered: two copies of the candidate's biodata on the APO biodata form together with a passport-sized photograph. The biodata form can be downloaded from the APO website (www.apo-tokyo.org). We encourage submitting the biodata form to the APO Secretariat in electronic form as an attachment to a cover e-mail message from the APO Director, Alternate Director, or Liaison Officer. The nomination documents should be sent to the Department in charge of this project.

e. The APO Medical and Insurance Declaration/Certification Form. Every candidate must complete and submit a copy of the APO Medical and Insurance Declaration/Certification Form with his/her
biodata at the time of nomination. Please note that self-declaration is sufficient for candidates without any of health conditions or illnesses listed on the reverse side of the medical form. However, for all others, medical certification by a licensed physician on the reverse side of the medical form is required.

f. Necessary documents are to be submitted electronically. In that case, there is no need to send a hard copy by postal mail. However, if the documents are submitted by fax, member countries are requested to mail the originals of the documents to the APO Secretariat as well. If a digital photograph of a nominee is not attached to the electronic biodata form, a hard-copy photograph should be sent to the APO Secretariat by postal mail. Please give the candidate's name and the project code on the reverse side of the photograph.

g. Member countries are requested to adhere to the nomination deadline given on page 1. The APO Secretariat may not consider late nominations as they have in the past resulted in considerable difficulties to the implementing organization in its preparatory work for the project.

h. For member countries where nominations are required to be approved by higher government authorities and require a longer time, APO Liaison Officers/NPOs are urged to send the names of nominees on or before the deadline, indicating that government approval will follow.

i. If a selected participant becomes unable to attend, he/she should inform the APO Liaison Officer/NPO in his/her country immediately and give the reason for withdrawal. The NPO concerned is requested to transmit that information to the APO Secretariat and the host country promptly.

j. NPOs are requested to inform the selected participants that they are not to bring family members or to engage in any private business activities during the entire duration of the project.

k. Each selected participant should be instructed to arrive at the venue one day before the start of the official project. Also, he/she is expected to return home upon completion of the official project because he/she is visiting the host country for the specific purpose of attending this APO project.

l. NPOs should inform participants that they must attend the entire program of the project.

m. NPOs should assist the APO and/or host country in collecting amounts corresponding to cancellation charges arising from withdrawal or no-show of a participant.

8. Actions by the APO Secretariat

a. Under normal circumstances, candidates who are selected will be informed of their acceptance at least four weeks prior to the start of the project.

b. If some candidates fail to qualify or be unable to participate after selection, or if some member countries fail to nominate any candidate, their slots may be filled by alternates from the same or another member country on a merit basis.

9. Project Preparation

Participants are required to prepare a short paper prior to departure for the project venue. In preparing the paper, they are expected to follow the "Guidelines for the Preparation of Country Papers" to be provided later.

10. Postproject Actions

All participants are required to prepare action plans and share the plans with their NPOs. The APO also requests participants to submit progress reports six months after completion of the project. In addition, participants taking part in training-of-trainers courses must also submit a report summarizing a training project that they conducted following the action plans to the APO and NPOs within six months after project completion.
11. Evaluation of Participants

If the conduct/attendance/performance of a participant is not satisfactory, these will be reported to the APO director concerned.

12. Guide for Participants

Other conditions for participation are given in the *APO Guide for Participants*, which is available from APO Liaison Officers/NPOs in member countries and on the APO website (www.apo-tokyo.org).

13. Dress Code

Participants are required to wear business attire during the project. Other instructions will be provided in the circular for participants.

Dr. AKP Mochtan
Secretary-General
POSTPROJECT ACTIVITY GUIDELINES

The follow-up actions by participants after project attendance determine the extent of multiplier effects (outcomes) of APO projects in member countries. The APO has therefore established an interdepartmental Participant Selection Committee to ensure selection of the most appropriate candidates. A key consideration is whether individuals are in a position, have the ability, and are willing to undertake follow-up actions after project attendance.

Each participant is required to undertake follow-up actions after attending an APO project based on his/her learning from it and report on those activities to the NPO of his/her country and the APO Secretariat, following the guidelines below:

Examples of Follow-up Activities
The examples below are suggestions and are not meant to limit participants’ choices of follow-up actions:

a. An official report on project attendance to participants’ organizations, or NPOs, or both;
b. Newspaper/magazine articles based on learning from the project;
c. Application of knowledge, skills, techniques, or technologies for improving job performance and/or organizational capacity;
d. Delivering a presentation or lecture on the project topic;
e. Conducting a workshop/seminar/conference/forum on the project topic;
f. Improving training/teaching/extension materials related to the project topic; and
g. Sharing project findings with colleagues, professional groups, or others.