

## APEC Project Proposal

<b>Project title and number:</b>	SCSC 01 2018T – Capacity Building on Testing Methods for Functionality Finishing on Textile Products and Certification Methods within the APEC Region		
<b>Fund Source (Select one):</b>			
<input checked="" type="checkbox"/> Trade and Investment Liberalization and Facilitation Special Account (TILF)			
<b>APEC forum:</b>	Sub-Committee on Standards and Conformance		
<b>Proposing APEC economy:</b>	Japan		
<b>Co-sponsoring economies:</b>	China; Hong Kong, China; Indonesia; Korea; Chinese Taipei; Viet Nam; Papua New Guinea; Mexico; Thailand; Philippines		
<b>Expected start date:</b>	August 2018		
<b>Expected completion date:</b>	December 2019		
<b>Project summary:</b>  <b>Describe the project in under 150 words. Your summary should include the project topic, goals, planned activities, timing and location:</b>  <i>(Summary must be no longer than the box provided. Cover sheet must fit on one page)</i>	<p>This project aims to improve technical capacity regarding ISO standards of four testing methods (antibacterial, deodorant, antifungal and antiviral function) for finishing on textile products. With the recent increasing awareness toward health in the APEC region, textile products are being processed with these functionality finishing, and certification labels for the functionality finishing can often be seen on textile products. These products are not always tested in accordance with the international standards, and methods for certification and labeling of the functionality finishing on these products are not harmonized. These problems would cause trade barriers and disadvantages to consumers in the APEC economies.</p> <p>In this project, relevant ISO standards will be explained, and a round robin test is planned to be conducted for harmonizing testing methods and skills within the APEC region. Furthermore, ISO/IEC 17065 (Requirements for Certification Bodies) will be explained regarding test methods of functionality finishing, which will encourage to issue fair and clear certification of functionality finishing on textile products. In this project, seminars will be held in Indonesia, Chinese Taipei, China, and Japan from November 2018 to December 2019.</p>		
<b>Summary of Proposed Budget (USD) :</b>	<b>APEC funding</b>	<b>Self-funding</b>	<b>Total</b>
	<b>199,784</b>	<b>104,272</b>	<b>304,056</b>

**Project Overseer Information and Declaration:**

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As Project Overseer and on behalf of the above said Organization, I declare that this submission was prepared in accordance with the **Guidebook on APEC Projects** and any ensuing project will comply with said Guidebook. Failure to do so may result in the BMC denying or revoking funding and/or project approval. I understand that any funds approved are granted on the basis of the information in the document's budget table, in the case of any inconsistencies within the document.

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Name of Project Overseer / Date

## Project Details

### **SECTION A: Project Relevance**

*[Answers to questions 1–3 may be taken or adapted from the Concept Note]*

1. **Relevance – Benefits to region: What problem does the project seek to address? Does it have sustained benefits for more than one economy?**

This project aims to disseminate several international standards of testing methods for functionality finishing on textile products in the APEC region. Harmonizing testing methods surely lead to eliminate trade barriers, promote and liberalize trade and investment of such products in the APEC region. In addition, providing correct information on textile products can protect common interests of consumers in the APEC region.

Activities to keep textile products hygienic by antibacterial, deodorant, antifungal, antiviral or other functionality finishing are fundamental movements for protecting the quality of life through sustainable development of health, welfare and the living environment. For this purpose, testing methods for functionality finishing are essential in order to appropriately apply the technology to textile products and harmonize testing methods in the APEC region.

At present, however, such tests are not always conducted in accordance with relevant ISO standards in the APEC region. For example, Halo method is still used for antibacterial test, but this testing method is not stipulated in the relevant ISO standard (ISO 20743). The Halo method is effective only for old type antibacterial processing agents, which have already been replaced by safer agents. The Halo method cannot detect the antibacterial effects of this type of safer agents, which prevents the dissemination of the new safer agents. Therefore, it is necessary to harmonize the antibacterial testing methods in the APEC region with the relevant ISO standard (ISO 20743) or AATCC100 which is as popular as the ISO testing method.

In addition, antifungal testing method (ISO 13629-1) was published in 2012, and the deodorant property testing method (ISO 17299-1 to 5) and antiviral testing method (ISO 18184) were published in 2014. However, these three newly published testing methods are still not widely used within the APEC region. Therefore, it is strongly encouraged to provide knowledge and skills of these standards to the APEC region.

Moreover, as textile industry consists of micro, small and medium enterprises (MSMEs), this project surely contributes to "Strengthening innovation capacities and competitiveness of MSMEs and MSMEs' insertion in GVCs" in the APEC region.

**Relevance – Eligibility: How does the project fit the eligibility criteria and funding priorities for the nominated fund or sub-fund? (see <http://www.apec.org/Projects/Funding-Sources.aspx> for eligibility criteria)**

This project clearly contributes to achieve trade and investment liberalization and facilitation stipulated in the "Osaka Action Agenda", especially for the following three general principles.

First, this project contributes to "Comprehensiveness - addressing all impediments to achieving the long-term goal of free and open trade." The fact that testing methods of textile products are different in each economy is a serious impediment to achieve the long-term goal of free and open trade. This project can harmonize the different testing methods of textiles and overcome the impediments.

Second, this project contributes to "WTO-consistency - measures undertaken in the context of the APEC Action Agenda are consistent with the principles of the World Trade Organization (WTO)". In particular, harmonizing testing methods of textiles in each economy to the ISO standards is consistent with the WTO / TBT agreement.

Third, this project contributes to "Flexibility - APEC member economies deal with the liberalization and facilitation process in a flexible manner, taking into account differing levels of economic development". Because levels of economic development of textile industry are different in the APEC region, explanations of the ISO standards and practical trainings conducted by this project clearly contribute to human development, especially skills development, science and technology and capacity building of the regional labor markets.

Lastly, this project is also in align with “5. Standards and Conformance” in Section C of “Osaka Action Agenda”, because one of the objectives of this project is to align domestic standards with international standards for testing methods of functionality finishing on textile products.

**Relevance – Capacity Building:** How will the project build the capacity of APEC member economies. For ASF projects, please identify the APEC developing member economies that will benefit from this project. (Refer to capacity building goals, objectives and principles at Appendix K of the Guidebook.) [*½ page*]

In this project, it is expected to explain the functionality testing methods of ISO 20743, ISO 17299-1 to 5, ISO 13629-1, ISO 18184 and AATCC100, and to conduct a round robin test for the development of skills and human resources of testing laboratories. Several organizations in the APEC developing economies can participate in the round robin test. It surely helps to build the capacity regarding the functionality testing methods. Furthermore, ISO/IEC 17065, requirements for bodies certifying products, processes and services, will be explained in this project.

From the above, this project surely leads to improve capacity of examiners, conducting the same tests in a harmonized manner and to produce equivalent test results in the end. Furthermore, through case studies of ISO/IEC 17065, the evaluation and labeling of functional textile products in the APEC region would be also harmonized.

2. **Objectives:** Describe the 2-3 key objectives of the project. (e.g. to ensure workshop participants will be able to...; to create a framework...; to develop recommendations...; to build support...; to revise strategies...; to create an action plan; ...improve capacity in; etc.) [*¼ page*]

The main objectives of this project are as follows:

- 1) Facilitate understandings of testing methods stipulated in ISO 20743, ISO 17299-1 to 5, ISO 13629-1, ISO 18184 and AATCC100 through lectures, questions and answers in the seminars.
- 2) Improve capacity of examiners of testing laboratories, and to unify the level of test skills within the APEC regions by conducting a round robin test according to the relevant ISO standards.
- 3) Facilitate understandings of ISO/IEC 17065 and international standards for product certification through lectures, questions and answers in the seminars.
- 4) Promote the labeling of textile products certified in accordance with the relevant international standards (ISO 20743, ISO 17299-1 to 5, ISO 13629-1, ISO 18184, AATCC100 and ISO/IEC 17065).
- 5) Increase investments and industrial productivity of functional textile products within the APEC region and promote free trade of such products.

3. **Alignment - APEC:** Describe specific APEC priorities, goals, strategies and/ or statements that the project supports, and explain how the project will contribute to their achievement.

This project supports “Priority 1: Improving Connectivity, Deepening Regional Economic Integration” and “Priority 2: Promoting Sustainable and Inclusive Growth” in “THEME AND PRIORITY AREAS FOR 2018”. This project will also contribute to “Improving Connectivity, Deepening Regional Economic Integration” by unifying the quality and value of functional textile products within the APEC region.

**Alignment – Forum:** How does the project align with your forum’s work plan/ strategic plan? [*½ page*]

This project supports "Support for the multilateral trading system/WTO" in “CTI and APEC Priorities”. One of the purposes of this project is to harmonize functionality testing methods for textile products with relevant ISO standards, which comply with the Article 2.4 of TBT Agreement which describes the use of international standards. In addition, the project encourages certifying functional textile products by using the ISO standards which is in compliance with the WTO/TBT Agreement. This project also unifies the quality and value of functional textile products in the APEC region. Thus, this project is expected to support “Advancing regional economic integration” in “CTI and APEC Priorities”.

The ISO standards covered in this project are intended for the protection of health, safety and the environment. Therefore, this project coincides with “the development of well-balanced regulatory policies on the protection of health, safety, and of free trade in the region” in “Strengthening Good Regulatory Practices and Regulatory Cooperation”.

### **SECTION B: Project Impact**

4. **Outputs: Describe products or services that the project will create. This may include workshop, reports, tools, research papers, recommendations, best practices, action plans etc. [ $\frac{1}{2}$  to  $\frac{3}{4}$  page]**

This project includes 4 seminars and a round robin test. Output of each item is following.

1) 1st Seminar

Target participants of this seminar are testing labs, especially examiners from those who would like to learn and discuss on functionality testing methods of textile such as antibacterial, deodorant, antifungal, and antiviral testing method. In addition, certification bodies and accreditation bodies are target participants too who would like to learn about ISO17065 (Requirements for Certification Bodies) in order to implement certification scheme about functionality testing methods. Therefore, they will get effective and practical knowledge of international functionality testing methods.

2) 2nd Seminar

This seminar is held for those who could not participate in the first one, so it has the same contents with the 1st seminar. Of course, those who have participated in the 1st seminar can participate again. Then, they will more deeply enhance knowledge of them.

3) 3rd Seminar

Target participants of this seminar are testing labs, especially examiners who would like to learn how to conduct a round robin test for functionality testing methods. In addition, certification bodies and accreditation bodies are target participants who would like to learn about best practices of product certification in order to acquire more knowledge of product certification. It is desirable that participants of this seminar should attend the previous 2 seminars, but it is also possible to participate in the seminar for person who already have the basic knowledge which are explained in the previous seminars. Participants who attended the 3rd seminar will be given priority in the nomination and selection process.

4) Round robin test

A round robin test is conducted among the participating testing labs in the APEC region. Participating labs actually experience functionality testing methods according to the related ISO standard methods. The test results are statistically analyzed by the project practitioner and reported in the 4th seminar.

Round robin test is conducted according to ISO/IEC 17043:2010 and evaluated in according to ISO/IEC GUIDE 43-1:1997 as described in section11 below. And these methods are explained in the 3rd seminar. So, it is desirable that participants of round robin test should participate in the 3rd seminar as well. Participants who attended the 3rd seminar will be given priority in the nomination and selection process.

5) 4th Seminar

In this seminar, target participants are testing labs. A report on result of the round robin test is delivered in this seminar. Participants discuss on the result of the round robin test, especially on the causes of ineligible test results, then confirm the report. As the contents of this report, testing results of each participant are shown in tables, histograms and bar charts. Result of the statistics analysis is shown in the same way, and equipment and processing agents used in the tests are shown too. Furthermore, the comments on statistical analysis result from the analyzer will be added in accordance with the APEC Publication guidelines. Then, participating testing labs can confirm the validity of their test results, which supports to implement the testing and certification in their economies. This report will be attached on the APEC website for the person who cannot participate in the 4th seminar.

In addition, participants, certification bodies and accreditation bodies will consider and discuss on harmonization of certification and labelling scheme in the APEC region in order to facilitate trade of textile products with functionality finishing. Once these schemes are harmonized based on the same test method, common quality of functionality finishing are maintained in the APEC economies, which facilitate the trade of such products. Standardization Development Organizations (SDOs) can also participate in these 4 seminars

to help developing or revising standards for testing methods of functionality finishing on textile products in their economy.

## 6) Report

Result of the round robin test and their statistics analysis will be prepared as a "Report". Contents of this report are described in 7. Dissemination, and the number of pages are about 40 pages, furthermore, target audience are participants of this project, and testing labs, certification bodies, accreditation bodies, and SDOs who are interested in functionality finishing on textile products and certification methods but could not participate in this project.

The reason of high number of events in this project is to learn the subject items step by step. Participants get basic knowledge in the 1st and 2nd seminars. Then, they get the practice knowledge through the 3rd seminar and round robin test. Finally, they review it deeply in the 4th seminar. Therefore, it is desirable to participate all events in order to reach the objectives of the project. However, skipping some events should be permissible if the target participants already have basic knowledge.

In order to reach out the desired participants and testing labs, PO will circulate the administrative circular through APEC SCSC and announce the relevant industries of each economy directly as well.

As a whole outputs of this project, functionality testing methods and skills among APEC member economies are harmonized to the ISO standards. In addition, the need for certification and labeling of functional textile products is explained. Product certification methods and labeling among APEC member economies are also harmonized.

The main trainers and speakers of this project are experts registered by ISO/TC38/WG23, or person with equivalent ability.

### 5. **Outcomes:** Describe the specific changes the outputs are expected to achieve in the medium-term. What changes in policy, processes or behaviour will the project lead to? [ $\frac{1}{2}$ to $\frac{3}{4}$ page]

Currently functionality testing methods of textile products are not always conducted in accordance with the international standards, and certification and labeling of the functionality finishing on these products are not harmonized. These problems would cause trade barriers and disadvantages to consumers in the APEC economies.

Participants in this project will get effective and practical knowledge of functionality testing methods of textile in accordance with the common international standard testing methods, because they actually experience those functionality testing methods through the round robin test, and they will gain more practical knowledge of requirements for product certification. Once participants expand the knowledge which is obtained in this project into their economy, APEC economy could secure the human resource infrastructure to implement the testing and certification of functionality testing. Moreover, it helps the manufactures and consumers in the APEC region to ensure the safety of textile products.

In the medium-term, functionality testing methods of textile products such as antibacterial, deodorant, antifungal, and antiviral testing method are harmonized to international standards in the APEC region. In addition, product certification and labeling method of textile products are harmonized in the APEC region.

### 6. **Beneficiaries:** Who are the direct project participants and users of the outputs? Describe their qualifications, level of expertise, roles/level of responsibility, gender, economies represented, government departments, APEC fora involvement etc. Explain how they will use and benefit from the outputs. Who else will benefit from the project and how? [ $\frac{1}{2}$ to $\frac{3}{4}$ page]

Direct beneficiaries of this project are the testing labs because examiners and administrators from them are able to learn the testing methods directly. Especially, their experience of the round robin test will be a strong benefit. Secondly, certification bodies and accreditation bodies are direct beneficiaries too, because the practitioners or administrators from them will learn international standards for product certification directly from experts of those.

Long-term or indirect beneficiaries are manufacturers and sellers of textile, because unification of functionality testing methods and standards of product certification will make manufacture and trade of textile in the APEC region easier.

Other long-term or indirect beneficiaries are consumers in the APEC region, because the labeling of textile products certified in accordance with the relevant international standards will ensure the quality of functionality textile products.

7. **Dissemination:** Describe plans to disseminate results and/or outputs of the project, including:
- The number, form and content of any publications. (Note: APEC will not fund publications that are only presentation slides, or website maintenance. Electronic publication encouraged.)
  - The target audience.
  - Any intention to sell outputs arising from this project. *[less than ½ page]*

Result of the round robin test and their statistics analysis will be published as a “Report” in this project. As the contents of this report, testing results of each participants are shown in tables, histograms and bar charts. Results of the statistics analysis are shown in the same way, and equipment and processing agents used in the tests are shown too. Furthermore, the comments on statistical analysis results from the analyzer will be added in accordance with the APEC Publication guidelines. The report will be distributed to participants in the 4th seminar, and will be uploaded on the APEC website for the person who cannot participate in the 4th seminar and for the dissemination of those international methods. However, for confidentiality reasons, names of participating testing labs will not be shown in the report.

On the other hand, the hard-copy of this report will not be sold because the report contains some individual confidential data.

8. **Gender:** What steps will the project take to ensure the participation and engagement of both men and women in project activities? How do project objectives benefit women? *[less than ½ page]*

Many women are actively involved in the textile field. Therefore, it is strongly recommended to women in the APEC region to participate in the series of seminars and the round robin test.

Once many women become to master international functionality testing methods, they could expand opportunities of their activities after this project. This surely contributes to raise ratio of women’s employment rate and contribute to the social contribution of women.

PO sets a percentage goal to be 30% for the rate of women speaker/experts and participants that are included in this project. And, PO commits to collecting sex-disaggregated data to learn if they have successfully met their established goals as to percentage of women speaker/experts and participants.

### **SECTION C: Project Effectiveness**

9. **Work plan:** Provide a timeline of actions you will take to reach your objectives. For each, include:
- How it will be implemented; how member economies, beneficiaries & others will be involved
  - Related outputs for that particular step (e.g. contract, agenda, participant list, workshop, report) *[1-2 pages. Answers may be taken or adapted from the Concept Note]*

Followings are the timeline, key activities and the deliverable output of this project.

Timeline	Key Activities	Deliverable Output
Aug.-Oct. 2018	<u>Preparation work necessary to conduct event</u> - logistics - drafting agenda - engaging of speakers and participants - participant nomination or selection process takes place before each event - preparing documents	- Administrative circular and agenda is circulated 2 month before the event.
Nov. 2018 (United States)	<u>1st Seminar (SDOs, Testing Labs, Certification Bodies, Accreditation Bodies, Manufacturers)</u> - The following five functionality finishing testing method standards (ISO 20743, ISO 17299-1 to 5, ISO 13629-1, ISO 18184 and AATCC100) are explained, and understanding is deepened through questions and answers. - ISO/IEC 17065 is explained, and understanding is deepened through	- Participants learn functionality testing methods. - Participants learn international standards for product certification.

Timeline	Key Activities	Deliverable Output
	questions and answers.	
Feb. 2019 (Indonesia)	<u>2nd Seminar</u> - Same contents with the first seminar	
June 2019 (Chinese Taipei)	<u>3rd Seminar (SDOs, Testing Labs, Certification Bodies, Accreditation Bodies, )</u> - Round robin test for the above four functionality testing methods is explained, and participants are solicited. - Examples of applying international standards of product certification are explained.	- Participants master how to do the round robin test. - Participants master international standards for product certification.
Jul.-Aug. 2019	<u>Practical Training (Examiners only)</u> - Round robin test is conducted in participating economies.	- Participants experience functionality testing.
Sep. 2019 (Japan)	<u>Office processing (secretariat)</u> - Statistics and analyses are made from round robin test results. - Drafting and finalizing of the report 'The Result of the round robin test and their Statistics Analysis'	- Functionality testing methods and skills among APEC member economies are harmonized.
Oct. 2019 (China)	<u>4th Seminar (SDOs, Testing Labs, Certification Bodies, Accreditation Bodies, Manufacturers)</u> - The results of round robin test is announced. Discussions are also held for statistically ineligible test results, such as investigating causes. - The need for certification and labeling of functional textile products is explained.	- Product certification methods and labeling among APEC member economies are harmonized.
Nov. 2019	<u>The drafting, endorsement and submission of the Completion Report and all the supporting documents to the Secretariat</u>	(See the 7.Dissemination)
June. 2020	<u>Evaluation of APEC projects conducted by the Secretariat</u>	

The reason why Indonesia, Chinese Taipei and China are selected as venues is that they are the main manufacturers and importers of textile products. Since one of the target standards in the 1st seminar is AATCC 100 which is a U.S. standard, Washington (U.S.) is chosen as a venue to have an experienced speaker in the AATCC 100 standard to share knowledge and experience of the speaker among the seminar participants.

10. **Risks: What risks could impact project implementation and how will they be managed?**

*[½ to 1 page, depending on project nature/complexity]*

- Low interest in participation: At present, functionality tests of textile products in the APEC region are not so popular. Especially, deodorant test, antifungal test or antiviral test is not so popular as antibacterial test because their international test method was published in the last few years. In addition, local test methods are also used for the functionality testing method. Therefore, it is concerned that there could be few participants.

However, as promotion of these international standards for APEC region is necessary, this project will manage this risk to inform this project for the laboratory of the economy via the administration and an industry group of each economy. Especially, invitations to participate in this project will be announced through the related organization of each economy and ISO/TC38/WG23. And, PO will try to announce the opening of seminars as soon as possible. Furthermore, PO will seek commitments from participants and their employers so that they will be able to participate in all events of the project.

This project has other risks like the table below. PO will take the best action or take the best change quickly according to the risks that arise as the table.

RISK	MANAGEMENT
The same participants are not able to attend the required events.	PO tries participant nomination or selection process before each event. The seminar date will be determined to consider the availability of participants of previous seminar.
The right participants are not targeted or are not able to attend due to budget constraints.	PO tries participant nomination or selection process before each event.
The seminar venue cannot use suddenly.	PO plans substitute seminar venue in advance.



11. **Monitoring and Evaluation:** How will you know whether the project achieved its objectives?

- **What information will be collected to assess progress and impact (e.g. stakeholder feedback, website hits, participant stats)? How will gender impacts be measured?**
- **How will you collect it (e.g. surveys, meetings, interviews, peer review, records review)?**
- **What indicators will you use and/or measure to know if the project is on track (monitoring) and successful in meeting its objectives (evaluation)?** [*½ page*]

Two evaluation methods, round robin test and Q&A to seminar participants, are prepared.

Round robin test is conducted according to ISO/IEC 17043:2010, "Conformity assessment – General requirements for proficiency testing" and will be evaluated according to ISO 13528:2005 "Statistical methods for use in proficiency testing by interlaboratory comparisons".

Q&A to seminar participants is carried out by speakers of each seminar who prepare questions and evaluate the level of understanding of their lecture contents.

Therefore, the participants would be asked and checked whether they obtain sufficient skill and knowledge of the 5 ISO standards to harmonize the testing methods in the APEC region. PO will use an evaluation report from each participant to evaluate whether he/she obtained sufficient skills and knowledge from the seminar. It will be used for adjusting contents of latter seminar.

Performance indicator for round robin test will be in accordance with evaluation of performance of ISO/IEC GUIDE 43-1:1997 "Proficiency testing interlaboratory comparisons – part 1: Development and operation of proficiency testing schemes"

This method use "z score" as indicator and evaluate testing result as following.

- |Z| ≤ 2 : Satisfied
- 2 < |Z| < 3 : Doubted
- |Z| ≥ 3 : Unsatisfied

This project targets to make the percentage of "Unsatisfied" less than 10%. And, the participating lab who is evaluated his/her testing result as "Unsatisfied" is required to pursue the causes.

Performance indicator for Q&A is check list which is created by speakers. It includes the Evaluation Table of each participant. Then, speaker himself will evaluate whether participants obtain sufficient skill and knowledge. Especially in the 1st seminar, participants who are evaluated as they obtain not enough sufficient skill and knowledge will be recommended to participate again at the next seminar.

Target numbers of the following indicators are as follows. The number of total participants is 93, the number of developing economies attending is 7, the number of evaluation methods trained is 6, the number of female speakers is 2, and female participant rate is 30%.

Furthermore, it will be monitored that functionality testing methods of textile products such as antibacterial, deodorant, antifungal, and antiviral testing method are harmonized to international standards or not in the APEC region. In addition, product certification and labeling method of textile products are harmonized or not in the APEC region.

12. **Linkages:** Describe the involvement of other APEC fora, and other relevant organizations. Include:

- **Engagement:** How are you engaging other relevant groups within and outside APEC?
- **Previous work:** How does this project build on, and avoid duplication of, previous or ongoing APEC initiatives, or those of other organizations working in this area?
- **APEC's comparative advantage:** Why is APEC the best sources of funds for this project?

[¼ to 1 page. Answers may be taken or adapted from the Concept Note]

This project is deeply linked to the activities of Market Access Group (MAG), since this projects supports one of the project in MAG, titled "APEC Public-Private Dialogue to Advance Understandings on Non-tariff Measures (NTMs) in Textile and Garment Industry for the realization of FTAAP". Expected outcomes of this project, harmonization of testing methods and certification, would contribute to the purpose of the MAG project "trade facilitation of textile products". It is useful inputs to the MAG project. Besides, this project is to be undertaken in

cooperation with ISO/TC38/WG23“Textile-Testing for antimicrobial activity and odour”, especially in collaboration with the convener and secretariat.

#### **SECTION D: Project Sustainability**

13. **Sustainability:** Describe how the project will continue to have impact after the APEC funding is finished.
- How will beneficiaries be supported to carry forward the results and lessons from the project?
  - After project completion, what are the possible next steps to build on its outputs and outcomes? How will you try to ensure these future actions will take place? How will next steps be tracked?
  - How will progress on the outcomes and impacts (Question 6) be measured? *[less than 1 page]*

The most effective way to maintain the harmonized testing methods in the APEC region is to repeat round robin test. Therefore, it is important to conduct round robin tests every year or at least every other year. After completion of this project, it will be afraid that almost participants will not conduct tests according to the international standard methods. So, this project has to recommend for participants to continue participating in round robin tests after the project. PO recommends for participating testing labs to continue to join the round robin test to be familiarized with the international standards method.

JTETC, Japan Textile Evaluation Technology council, conduct round robin tests for antibacterial testing every other year. In 2016, 28 Testing Labs from 6 economies in the APEC region participated in this round robin test. Therefore, effective way to maintain the harmonized testing methods in the APEC region is that participants of this project continue to participate in these round robin tests which will be introduced at the 4th seminar. And, the participation guideline of it will be attached on the website of JTETC, and will be notified to participants of this project, every time. Also, if necessary, round robin tests for other functionality test, for deodorant test, for antifungal test or for antiviral test, will be considered to be organized by JTETC.

In case new challenges are highlighted through the discussions and Q&A at the seminars to maintain the harmonized testing methods in the APEC region, those challenges will be considered by ISO/TC38/WG23.

14. **Project Overseers:** Who will manage the project? This includes managing of contractors and specialists. Please include brief details of the PO and any other main point(s) of contact responsible for this project. *[less than ½ page]*

Mr. Mitsuo MATSUMOTO will supervise and assess the project. He is director of Office for Economic Partnership for Standard and Conformity Assessment, Ministry of Economy, Trade and Industry (METI), JAPAN and has been involved in the standardization activity including the cooperation with National Standardization Bodies in foreign economies.

Mr. Norimitsu SUSO, Director of Japan Textile Evaluation Technology council (JTETC) will lead the project with cooperation with METI. Mr. SUSO has been engaged in textile technology for 36 years, and engaged in certification of functionality textile for 10 years. And, he is now secretariat of ISO/TC38/WG23. Therefore, Mr. SUSO is the best person to lead this project to the goal and as a speaker at the seminars in close consultation with METI.

**SECTION E: Project Efficiency**

15. **Budget:** Complete the budget and budget notes for the project in the template below. The budget should include calculation assumptions (e.g., unit costs) and self-funding contributions. Please consult the *Guidebook on APEC Projects* for eligible expenses.

**APEC Project Itemized Budget**

Please consult the eligible expenses in the *Guidebook on APEC Projects*

<u>All Figures in USD</u>	# of Units	Unit Rate	APEC Funding	Self-Funding	Notes
<b>Direct Labour</b>					
Speaker's honorarium (government officials ineligible)	(# of speakers)	1,000	24,000		6 speakers × 4 seminars
Short-term clerical fees (details of scope of work and deliverables in Budget Note 1 - Direct Labour)	(# of hours)	50		6,000	120 hours of Statistical analysis of the Round robin test
Contractor fees (contractors Secretary's fees to be included in cost and packaged together)	(# of hours)				
<b>Travel (Speaker, Experts, Researchers)</b>					
Per diem (incl. accommodation and "75% additional payment")  Per diem rates are based on "Official WHO-UN Per-diem and Stipend rates"	(# of persons and days)	373	8,393		<u>1<sup>st</sup> seminar (Washington)</u> 6 persons, 3.75days
		207	4,658		<u>2<sup>nd</sup> seminar (Jakarta)</u> 6 persons, 3.75days
		289	6,503		<u>3<sup>rd</sup> seminar (Taipei)</u> 6 persons, 3.75days
		239	5,378		<u>4<sup>th</sup> seminar (Shanghai)</u> 6 persons, 3.75days
Airfare	(# of persons and trips)	5,000	20,000		<u>1<sup>st</sup> seminar (Washington)</u> 4 persons (from Far East)
		5,000	5,000		<u>2<sup>nd</sup> seminar (Jakarta)</u> 1 person (from Americas)
		1,000	4,000		4 persons (from Far East)
		500	2,500		<u>3<sup>rd</sup> seminar (Taipei)</u> 5 persons (from Far East)
		500	2,500		<u>4<sup>th</sup> seminar (Shanghai)</u> 5 persons (from Far East)
<b>Travel for Participants (from travel-eligible economies only. Active participants only)</b>					
Per diem (incl. accommodations and "75% additional payment")	(# of persons and days)	373	15,386	8,392	<u>1<sup>st</sup> seminar (Washington)</u> A.F.: 11 persons, 3.75days S.F.: 6 persons, 3.75days

<u>All Figures in USD</u>	# of Units	Unit Rate	APEC Funding	Self-Funding	Notes
A.F.: APEC Funding S.F.: Self - Funding		207	8,539	10,868	<u>2<sup>nd</sup> seminar (Jakarta)</u> A.F.: 11 persons, 3.75days S.F.: 14 persons, 3.75days
		289	13,005	14,089	<u>3<sup>rd</sup> seminar (Taipei)</u> A.F.: 12 persons, 3.75days S.F.: 13 persons, 3.75days
		239	8,962	14,340	<u>4<sup>th</sup> seminar (Shanghai)</u> A.F.: 10 persons, 3.75days S.F.: 16 persons, 3.75days
Airfare (restricted economy class)	(# of persons and trips)	2,200	4,400	8,800	<u>1<sup>st</sup> Seminar (Washington)</u> From Far East A.F.2persons/ S.F.4persons From Southeast Asia A.F.8persons/ S.F.1persons From Americas A.F.:1persons / S.F.1persons
		2,200	17,600	2,200	<u>2<sup>nd</sup> Seminar (Jakarta)</u> From Far East A.F.2persons/ S.F.10persons
		500	500	500	From Southeast Asia A.F.8persons/ S.F.2persons From Americas A.F.:0persons / S.F.2persons
		1,000	2,000	10,000	<u>3<sup>rd</sup> Seminar (Taipei)</u> From Far East A.F.2persons/ S.F.9persons
		500	4,000	1,000	From Southeast Asia A.F.8persons/ S.F.2persons
		2,200	2,200	4,400	From Americas A.F.:0persons / S.F.2persons
		500	1,000	4,500	<u>4<sup>th</sup> Seminar (Shanghai)</u> From Far East A.F.0persons/ S.F.12persons
		1,000	8,000	2,000	From Southeast Asia A.F.8persons/ S.F.2persons
		2,200	0	4,400	From Americas A.F.:0persons / S.F.2persons
		500	0	6,000	<u>4<sup>th</sup> Seminar (Shanghai)</u> From Far East A.F.0persons/ S.F.12persons
		1,000	10,000	2,000	From Southeast Asia A.F.10persons/ S.F.2persons
		2,200	0	4,400	From Americas A.F.:0persons / S.F.2persons
<u>All Figures in USD</u>	# of Units	Unit Rate	APEC Funding	Self-Funding	Notes
<b>Other items</b>					
Publication/distribution of report	(# of copies)	50	1,000		20 reports

<b><u>All Figures in USD</u></b>	<b># of Units</b>	<b>Unit Rate</b>	<b>APEC Funding</b>	<b>Self-Funding</b>	<b>Notes</b>
Specialized equipment or materials ( <i>please describe</i> )	(type, #, and # of days)	100	10,000		100 specimen samples
Photocopying	(# of copies)	0.1	120		1,200 page// 6 documents , 4 seminars
Communications (telephone, fax, mail, courier)		1	140	383	
<i>Hosting</i> (provide breakdown, e.g., room rental, stationery)	(units as appropriate)	1,250	10,000		4 seminars, 2 days
<b>Total:</b>			<b>199,784</b>	<b>104,272</b>	

**Budget Note 1: Direct Labour: Provide information for APEC-funded positions including general duties, total hours and who will be contracted, if known. (It is not acceptable to contract staff from your own organization or government employees.)**

Statistical analysis of the round robin test will be conducted by Mr. Norimitsu SUSO and his staff of JTETC who is one of the Project Overseers to lead the project in cooperation with METI as described in paragraph14. So, the direct labor cost of short-term clerical fees for it is accounted in the self-funding.

**Budget Note 2: Waivers: Provide details of any requests for waivers from the normal APEC financial rules, with justifications in the notes column of the budget table, or below if the waiver requires a detailed explanation.**

In this project, Mr. Norimitsu SUSO is one of the Project Overseers to lead the project in cooperation with METI as described in paragraph14. However, usually he is not a staff of the government or its related organizations, but a technician who has been engaged in textile technology for 36 years, and engaged in certification of functionality textile for 10 years. And, he is now secretariat of ISO/TC38/WG23.

So, he will become one of the speakers in the all 4 seminars, because he is also one of the useful experts in this project. So, his travel cost is requested for waivers from the normal APEC financial rules.