

**SME Development Fund (SDF)/
Dedicated Fund on Branding, Upgrading and Domestic Sales (BUD Fund)
(Organisation Support Programme) (OSP)**

Final Report on Approved Project

Project ref. no.	:	<u>D15/003/003</u>	
Project title	:	<u>Development of an e-platform of chemical management system for the Hong Kong textile and clothing industry</u>	
Period covered	:	From <u>1/4/2016</u> (dd/mm/yy)	to <u>31/3/2018</u> (dd/mm/yy)

1. Project Details

(Please mark with "*" if any of the following project details is different from that in the project proposal appended to the project agreement.)

Project Summary (in about 150 words)

Recently, under the pressure from NGOs, both customers and the Chinese Government have raised concerns on the use of hazardous substance which directly related to pollution as well as the risk of explosions. Some associations started to educate the consumers who should know what chemical and where your clothes produce. This highlighted the importance and need of an effective chemical management system among all manufacturers in order to increase the transparency and traceability of them.

Moreover, many global brands have its own RSLs (end product requirement) and MRSLs (manufacturing process requirement) and will roll out the chemical audit to assess their supplier chemical performances onsite in the near future. So, recently they requested their suppliers to implement an effective chemical management site and also required their suppliers has its own set of documented procedures. However, most SMEs do lack the resources and knowledge to identify which the chemicals are hazardous or not. Or even they do not know how to inform their chemical suppliers to supply appropriate chemical to them for use.

Therefore, it is the difficulties for SMEs to fulfill their customers' requirement or even meet the future chemical audit. We can foresee SMEs will employ external consultancy to assist them for developing the chemical management system onsite. But SMEs will need to pay for it.

Effective Chemical management is now a high priority criterion for Brands' supplier selection as well as contingency planning for potential accidents in China or other developing countries. We would like to develop an e-platform to facilitate the Hong Kong textile and clothing industry to implement an effective chemical management system to enhance competitive and compliance.

The Federation of Hong Kong Garment Manufacturers (FHKGM), in partnership with the Clothing Industry Training Authority (CITA), hereafter referred as "Project Team", propose to launch a 24 months program which includes the development of an e-platform to facilitate local manufacturing industry in implementing an effective chemical management system for complying with global requirements and Chinese national regulations. The scope of the Project includes:

1. Develop a screening method for evaluating the current chemical management performance of SME manufacturers.
2. Based on the result of the screening, develop tailor-made step-by-step implementation manual for the SMEs to understand, follow and implement their own chemical management system in their factories. This will assist SMEs to build up its own RSL and MRSL according to the most up-to-dated requirements of common global brands and to comply with the Chinese strict regulations.
3. Develop a set of e-learning video training classes which on the proposed e-platform to facilitate SMEs better understanding on the requirements and components while implementing chemical management system. This also includes all the use and definitions of related documents and operation procedures such as RSLs, MSDS and the proper manner for chemical storage and handling etc.

Project Objective(s) (in about 80 words)

To develop an e-platform to facilitate the local textile and clothing SMEs, in implementing, without the need of

paying for consultancy services, an effective chemical management system that aims to prevent dangerous accidents happening and to satisfy requirements of global fashion brands as well as regulations imposed by the Chinese Government.

Grantee/Collaborating Organisation/Implementation Agent

Grantee : The Federation of Hong Kong Garment Manufacturers

Collaborating Organisation(s) : Sustainable Fashion Business Consortium Limited
Textile Council of Hong Kong Limited
Knitwear Innovation and Design Society Limited
Hong Kong Association of Textile Bleachers, Dyers, Printers and Finishers Limited
The Hong Kong Institution of Textile and Apparel Limited
Hong Kong Apparel Society Limited

Implementation Agent(s) : Clothing Industry Training Authority

Key Personnel

	<u>Name</u>	<u>Company/Organisation</u>	<u>Tel No. & Fax No.</u>
Project Co-ordinator :	<u>Mr. Yeung Chun Fan</u>	<u>The Federation of Hong Kong Garment Manufacturers</u>	<u>Tel: 2721-1383</u> <u>Fax: 2311-1062</u>
Deputy Project Co-ordinator :	<u>Prof. Philip Yeung</u>	<u>Clothing Industry Training Authority</u>	<u>Tel: 2263 6300</u> <u>Fax: 2795 0452</u>

Project Period

	<u>Commencement Date</u> (day/month/year)	<u>Completion Date</u> (day/month/year)	<u>Project Duration</u> (No. of months)
As stated in project agreement	<u>01/04/16</u>	<u>31/03/18</u>	<u>24</u>
Revised (if applicable)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

2. Summary of Project Results

Project Deliverables

(Please list out the project deliverables as stated in the project proposal appended to the project agreement and provide details related to the actual result achieved for each of them.)

	Project deliverable	Quantifiable target number (e.g. 100 participants)	Actual result achieved (e.g. 90 participants)	Reasons for not achieving the target, if applicable (e.g. The total number of registered participants was over 120. However, some of them did not show up eventually. Will strengthen promotion and try to make up for the shortfall in the following two seminars.)
a)	Web-based Chemical Management System (http://chemicals.cita.org.hk)	One e-platform with step-by-step e-guidance and e-manual, and 10 videos	One e-platform with step-by-step e-guidance and e-manual, and 10 videos No. of hit rate: 24,610 (No. of accounts registered: 2,380) *Remarks: Users can share the same account for their e-learning and each account can create more than 1 assessment.	N/A
b)	3 Seminars	300-450 participants for 3 seminars in total	Total number of enrolment: 265 Seminar 1: 81 Seminar 2: 82 Seminar 3: 102 Total number of participants: 206 Seminar 1: 57 Seminar 2: 67 Seminar 3: 82	We target to meet the number of participants within 3 seminars, but the result was unexpected. The fourth seminar was collaborated with TESTEX Swiss Textile-Testing Ltd. The statistic as follow: Seminar 4 Total number of enrolment: 99 Total number of participants: 79 In conclusion, total number of participants is 285.
c)	6 Workshops	240-300 participants for 6 workshops in total	Total number of enrolment: 247 Workshop 1: 36 Workshop 2: 27 Workshop 3: 61 Workshop 4: 59 Workshop 5: 32 Workshop 6: 32 Total number of	The target was not achievable and the additional 2 seminars were organized. The enrolment and participants statistic as follow: Total number of enrolment: 49 Workshop 7: 21 Workshop 8: 28 Total number of participants: 39

			participants: 217 Workshop 1: 28 Workshop 2: 31 Workshop 3: 52 Workshop 4: 51 Workshop 5: 29 Workshop 6: 26	Workshop 7: 20 Workshop 8: 19 In conclusion, the target is met and the total number of participants is 256.
d)	Helpdesk	9 months	11 months	The helpdesk service were provided during 1/5/2017 to 31/3/2018. (Tel. 2263 6342, email: cms@cita.org.hk)

Details of the deliverables (e.g. date, duration, venue, speaker, topic discussed, etc.)

(Please list out in table format if necessary.)

1. Web-based Chemical Management System Assessment

A CMS e-platform is developed and it is available at <http://chemicals.cita.org.hk> with three language version (i.e. Traditional Chinese, Simplified Chinese and English) for e-learning.

This platform provided the following functions:

- a. CMS self-assessment to help SMEs to evaluate their knowledge on CMS.
- b. Tailor Made Implementation Manual to help SMEs establish and develop their own CMS, through the evaluation on CMS self-assessment. The manual will be made up of the following sections:
 - Section 1: Commitments to Chemical Management System (CMS)
 - Section 2: Regulation Compliance
 - Section 3: Risk Assessment
 - Section 4: Chemical Inventory
 - Section 5: Chemical Storage and Handling
 - Section 6: Chemical Contingency Planning
 - Section 7: Brands Requirements Compliance (Advanced Level)
 - Section 8: Supplier and Sub-contractor Management (Advanced Level)

The manual will be made according to users' needs.

- c. 10 video animation on the introduction of CMS.
- d. Additional Resources for users' reference on CMS.

2. Project Steering Committee (PSC)

PSC was formed to provide industry advice and views to enhance the web-based CMS development. The Committee comprised five members from trade associations and representative organizations as listed below:

- Chairman:

Mr. Lawrence Leung (Knitwear Innovation and Design Society Limited)

- Members: (in alphabetical order)

Mr. Banny Yu (Hong Kong Apparel Society Limited)

Mr. Calvin Lam (Hong Kong Institution of Textile and Apparel)

Hon Felix Chung (HKSAR Legislative Council Member (Textiles & Garment Sector)

Mr. John Lam (Sustainable Fashion Business Consortium)

Mr. Michael Leung (The Federation of Hong Kong Garment Manufacturers)

Mr. Spike Ngai (Hong Kong Association of Textile Bleachers, Dyers, Printers and Finishers Limited)

Date of Meeting	Venue	Issues Discussed
27/05/2016	Broad Room, Clothing Industry Training Authority	1. Selection of Committee Chairman; and 2. Introduction on CMS e-platform
28/09/2016	Broad Room, Clothing Industry Training Authority	1. Analytical Statistics on the Content of CMS; and 2. CMS E-platform Development;
16/02/2017	Broad Room, Clothing Industry Training Authority	1. Demonstration on the CMS E-platform; and 2. Promotional strategies
27/04/2017	Broad Room, Clothing Industry Training Authority	1. Demonstration on the CMS E-platform; and 2. Demonstration on the video animation about CMS
20/12/2017	Broad Room, Clothing Industry Training Authority	1. Analysis on Seminars and Workshops Events; and 2. Follow up plan on the Project

3. Seminars and Workshops

Project deliverable	Date	Venue	Speaker	Topic Discussed/Presented
Seminar 1 (Topic: Seminar on Chemical Management at a Glance)	09/06/2017 14:30-17:30	Lecture Hall, 1/F Clothing Industry Training Authority	<ol style="list-style-type: none"> Mr. Lawrence Leung, Knitwear Innovation and Design Society; Ms. Mitsuko Wong, C&A; Mr. Lee Yat Chung, SDC Committee Member; Ms. Sharon Yeung, Dystar; and Mr. Stephen Chui, Clothing Industry Training Authority 	<ol style="list-style-type: none"> Welcome speech; Fashion Brand's Chemical Management Strategy; Chemical Management in Textile Manufacturing; Update of Chemical Management; and Introduction to Chemical Management E-learning Platform
Seminar 2 (Topic: Seminar on No More Hazardous Chemicals in Products)	27/10/2017 14:30-16:30	Lecture Hall, 1/F Clothing Industry Training Authority	<ol style="list-style-type: none"> Hon Felix Chung, Member of Legislative Council of HKSAR (Textiles and Garment Sector); Ms. Carmen Chan, Senior Corporate Responsibility Manager of Tesco Sourcing; Mr. Patrick Yeung, General Manager (Dyeing and Finishing) of Sun Hing Industries Holding Limited; and Mr. Stephen Chui, Clothing Industry Training Authority 	<ol style="list-style-type: none"> Welcome speech; Tesco's Chemical Management Commitment Sharing Experience Sharing on Chemical Management CMS E-platform X Hazardous Chemicals Elimination
Seminar 3 (Topic: Stepping into the Cleaner Production Age)	01/12/2017 14:00-17:00	Lecture Hall, 1/F Clothing Industry Training Authority	<ol style="list-style-type: none"> Dr. Graham Clayton, Consultant of Hong Kong Productivity Council; Mr. Basto Wong, Technical Key Account Manager, Asia Pacific of Datacolor; Ms. Kit Li, Project Manager of Clothing Industry Training Authority; Mr. Andrea Muratori, (Morgan Tecnica Spa), with agent in China (Chemtax Industrial Co., Ltd); and 	<ol style="list-style-type: none"> The Latest SDC Development Measuring Color Out of Your Pocket – Ultra-Portable Color Measurement Cleaner Textile Wet Processing with Sustainable Chemical Management Tailored Made technology: from Printing to Cutting Room Solution Cleaner Production

			5. Mr. Ray Shiu , Chairman of Hong Kong Association of Textile Bleachers, Dyers, Printers and Finishers	Technology for Knitted Fabric: Cold Pad Batch Dyeing
Additional Seminar 4 (Topic: Seminar on Evolving Standards of Chemical Management)	25/01/2018 14:30-17:30	Seminar Room, G/F Clothing Industry Training Authority	1. Ms. Carmen Chan , Board Director of ZDHC of Tesco Sourcing; 2. Mr. Marc Sidler , CMO of TESTEX Swiss Textile-Tesing Ltd; 3. Mr. Stephen Chui , Clothing Industry Training Authority; and 4. Ms. Sheila Shek , Senior Manager – Social and Environmental Affairs of Adidas Group	1. Welcome Remarks 2. Latest Updates on ZDHC 3. The Key to Confidence – build consumer trust with OEKO-TEX® now 4. CMS E-platform for Textiles Industry 5. ADIDAS Chemical Management Strategy
Workshop 1 (Topic: Chemical Management System Workshop)	16/06/2017 14:30-16:30	Exhibition Hall, 2/F, Clothing Industry Training Authority	1. Ms. Koey Wong , Sustainability Analyst Marks & Spencer; and 2. Mr. Stephen Chui , Clothing Industry Training Authority	1. Experience Sharing: Supply Chain Chemical Management 2. Application on Chemical Management E-platform - Introduction & Demonstration on CMS - Case Study & Group Exercises
Workshop 2 (Topic: Application on Chemical Management System in Textile Industry)	03/08/2017 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Ms. Sheila Shek , Senior Manager – Social and Environmental Affairs of Adidas Group 2. Ms. Sharon Yeung , Dystar; and 3. Mr. Stephen Chui , Clothing Industry Training Authority	1. Global Supply Chain on Chemical Management System 2. Dyes Suppliers's Responsibility and Support on Chemical Management System 3. Chemical Management System Nowadays
Workshop 3 (Topic: Get Prepared for Higg Index 3.0 – Chemical Management Section" Workshop)	13/10/2017 14:30-16:30	Exhibition Hall 2/F, Clothing Industry Training Authority	1. Ms. Kit Li , SAC Asia-Pacific Office; 2. Mr. Stephen Chui , Clothing Industry Training Authority	1. Welcome Remarks 2. Higg Index 3.0 Chemical Management Section Quick Review 3. Application on Chemical Management E-learning Platform to Fulfill Higg 3.0
Workshop 4 (Topic: Get Prepared for Higg Index 3.0 – Chemical	10/11/2017 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Ms. Kit Li , SAC Asia-Pacific Office; 2. Mr. Stephen Chui , Clothing Industry	1. Introduction on Higg Index 3.0; 2. Higg Index 3.0 Chemical Management Section Quick Review

Management Section” Workshop)			Training Authority	3. Application on Chemical Management E-learning Platform
Workshop 5 (Topic: Higg Index 3.0 New Platform – Chemical Section)	19/01/2018 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Ms. Kit Li , SAC Asia-Pacific Office; 2. Mr. Stephen Chui , Clothing Industry Training Authority	1. Introduction on Higg Index 3.0; 2. Quick Review on Higg Index 3.0 – Chemical Section 3. Apply CMS E-platform on Higg Index 3.0
Workshop 6 (Topic: Chemical Management System X Higg Index 3.0)	26/01/2018 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Ms. Kit Li , SAC Asia-Pacific Office; 2. Mr. Stephen Chui , Clothing Industry Training Authority	1. Introduction on Higg Index 3.0; 2. New Chemical Requirements of Higg Index 3.0 3. Use CMS E-platform to Improve Chemical Management System
Additional Workshop 1 (Topic: Industrial Application of CMS E-platform)	05/02/2018 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Mr. Stephen Chui , Clothing Industry Training Authority 2. Ms. Adeline Choo , Clothing Industry Training Authority	1. Chemical Management in Clothing and Textile Industry; 2. Introduction and Demonstration of CMS E-Platform
Additional Workshop 2 (Topic: Conformity in FEM 3.0: Chemical Management Workshop)	06/02/2018 14:30-16:30	Seminar Room, G/F, Clothing Industry Training Authority	1. Ms. Kit Li , SAC Asia-Pacific Office; 2. Mr. Stephen Chui , Clothing Industry Training Authority	1. Welcome Remarks; 2. Documentation for Higg FEM 3.0 in Chemical Management Section; and 3. Application on Chemical Management E-learning Platform

Milestones (in chronological order)

(# Please indicate if the milestone is completed (C), deferred (D) or not achieved (N). If it is deferred, please indicate the revised completion date. For those milestones which are deferred or not achieved, please also provide the reasons under item 2.4.)

<u>Milestone</u> (as set out in the approved project proposal appended to the project agreement)	<u>Original target completion date</u>	<u>Revised completion date</u> (if applicable)	<u>Status</u> (C/D/N) #
To form a project steering committee to	30/04/16	N/A	C
(a) oversee the project			
Research and Preparation of the e-platform	30/09/16	N/A	C
(b) for chemical management implementation			
Development of the e-learning platform for implementing Chemical Management	30/04/17	N/A	C
(c) System (CMS)			
(d) Advertisement	31/03/18	N/A	C
(e) Organizing 3 seminars	31/03/18	N/A	C
(f) Organizing 6 workshops	31/03/18	N/A	C
(g) Providing helpdesk service	31/03/18	N/A	C

Future Plan for Promoting the Project Deliverables (Nil if not applicable)

Nil
