



Project title	New Professional Diploma in Plant Clinic and Phytosanitary Technologies (PRO-DPCP)
Project No	609550-EPP-1-2019-1-BG-EPPKA2-CBHE-JP
Work Package	WP2 – DEVELOPMENT (I)
Task 2.1.	Need analysis of equipment and teaching materials for Network/training centers.
Date	15/9/2020
Dissemination level	Internal



Report of need analysis of equipment and training centers

The plant clinic team at the Suez Canal University made a meeting to implement the specific tasks according to the work plan and timetable:

	Name	Position
1	Prof. Waleed I Shaban	Project manager in Suez Canal Univ.
2	Prof. Manal Eid	Vice project manager in Suez Canal Univ.
3	Prof. Mohamed Naeim	Consortium of training
4	Prof. Heba Abd El Nabi	
5	Prof. Tamer Shawky	

The project management team met with the purchase committee on 15 / 9 / 2020, the meeting discussed the issues raised, including:

The project management team met with the Training Committee and the purchase committee on 29 / 7 / 2020, and the meeting discussed the issues raised, including:

WP 2.1. The need analysis of equipment and educational materials for the network / training centers and plant clinic laboratory.

After a discussion session, the attendees used models for modern plant disease laboratories and based on the role of the plant clinic in the practical teaching of the curricula, which revolves around the diagnosis of plant pathogens and pests. The attendees agreed that the following equipment should be available in the plant clinic laboratory to serve the educational process and training needs in the botanical clinic diploma as well as pedagogical center on the following requirements:



Plant Clinic Equipment Justification

I- List of Equipment required for establishing a Pedagogical Center				
No	Item	No of pieces	Estimated budget	Specification
1	Desk Top Computer Dell or hp	12		
2	Video projectors (Data Show)	1		
3	Laptop Computers	1		
4	Projector screen	1		
5	Photocopy machines	1		
6	Printer laser	1		Under preparation by University IT Center
7	TV LCD 42 inch	1		
8	Scanner	1		
9	Camcorder Sony	1		
10	Tripod stand holder for Camcorder and camera	1		
11	Uninterruptible Power Supplies (UPS)	1		
12	Wireless Network devices	1		
13	Computer Software include mainly: Antivirus 2010 (15 Users), Microsoft Office 2010 (15 users), Adobe Acrobat 9 professional (1 user)			
14	Various Accessories for computer lab			
15	Air conditioner			

II- List of Equipment required for upgrading student laboratory.

No	Item	No of pieces	Estimated budget	Specification	
1	Digital Microscope with camera and LCD	1		Under preparation by Laboratories committee	this device is necessary in studying course Fungal Diseases and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
2	Binocular Microscope	4			this device is necessary in studying course Fungal Diseases and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
3	Educational laboratory glassware	Various			this device is necessary in studying course Fungal Diseases and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
4	pH meter	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
5	Balance	1			this device is necessary in studying course Plant Nematodes diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
6	Incubator	1			this device is necessary in studying course Fungal Diseases and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
7	Electrical oven	1			this device is necessary in studying course Fungal Diseases and water molds and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests and Laboratory methods for diagnosis and

					identification of plant diseases and pests
8	Autoclave	1			this device is necessary in studying course Fungal Diseases and water molds and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
9	Laboratory Centrifuge	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests and Laboratory methods for diagnosis and identification of plant diseases and pests
10	Laminar flow hood	1			this device is necessary in studying course Fungal Diseases and water molds and Bacterial Diseases Laboratory methods for diagnosis and identification of plant diseases and pests
11	Nematode extraction sieves unit	1			Plant Nematodes diseases
12	Homogenizer	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
13	Vortex	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
14	Freezer (-80)	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and

15	Vertical Autoclave	1			this device is necessary in studying course Fungal Diseases and water molds and Bacterial Diseases Laboratory methods for diagnosis and identification of plant diseases and pests
16	Ultra-low freezer	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
17	Benchtop Homogenizer	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
18	Gel Documentation System	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
19	Double beam UV spectrophotometer	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests
20	PCR thermocycle	1			this device is necessary in studying course Virus and 'Virus-Like' and Bacterial Diseases and Laboratory methods for diagnosis and identification of plant diseases and pests



The project management team met with the Training Committee and the Purchase Committee



Plant Clinic Diploma



Need analysis of equipment's and teaching materials for Network/training center

Workshop for Plant clinic Program at Suez Canal University

29 /7/2020

No	Name	Position	E. mail	Tel	Signature
1	Mohamed Ali Mahmoud	Prof. Dr. plant physiology	mhamahmy@yahoo.com	0122227130	M. Ali
2	Manal Hassan Eid	Prof. Genetics	eid.manal@delhi.ac.in	01005399125	Manal Eid
3	Mohamed Ibrahim	lecturer plant path.	wardany75@yahoo.com	0664464402	Mohamed Ibrahim
4	Ahmed Ibrahim Mohamed	prof. Dr. plant nutrition.	ahmed_shaba1@yahoo.com	01010035003	Ahmed Ibrahim
5	Walad I. Shaban	Prof. of PhytoPath	walad219@yahoo.com	01204352822	W. I. Shaban
6	Lubna Ali ELShaeb	Technician			Lubna