PURCHASED EQUIPMENT, DEVELOPED FACILITY AND ITS USE HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY UNDER THE INTENSE PROJECT

1. **Introduction:**

At the beginning of the INTENSE project, Hanoi University of Science and Technology has reviewed and updated the proposed list of equipment purchased according to available instrument in Vietnam. The project's equipment has been put into use in January 2019. Due to the special characteristics of the project's equipment are computers and printers, so they have been distributed to the HOST organization (HUST) and the School of Environmental Science and Technology (INEST), the participants implemented in the project.

2. **List of the purchased equipment:**

	List of equipment of the project proposed	List of equipment purchased	Technical specifications (configuration is equivalent to or superior to the project's requirement)
WP 2 and 3 - Development	Main PC Set 1c., appropriate for math model calculation, includes: Intel Core i7-7700K 4.2GHz / 8GT / giây / 8MB (BX80677I77700K) s1151 BOX MSI Z270 PC Mate (s1151, Intel Z270, PCI-Ex16) SSD Samsung 850 Pro series 256GB 2.5 "SATAIII MLC (MZ-7KE256BW) RAM Kingston DDR4-2400 32768MB PC4-19200 (Bộ 2x16384) HyperX Fury Black (HX424C15FBK2 / 32) HDD Western Digital WD1003FZEX Black 1TB 7200 rpm 64MB 3.5 SATA III Computer case Chieftec Libra LG-01B-OP (Miditower) Power Supply Chieftec GPS-700A8 700 W UPS APC Smart-UPS C 1000VA LCD (SMC1000I) Logitech Wireless Keyboard K270 UKR (920-003762) Logitech M330 Silent Plus Mouse Black (910-004909)	Main PC Set 1c. Dell Precision (Workstation) 3620, appropriate for math model calculation, includes: / Intel Core i7-6700 (3.40GHz,8MB)/ Ram 32GB (4x8GB)/ 256GB SSD Sam Sung Pro +1TB HDD/ DVDRW/ VGA NVIDIA Quadro 4GB Graphics/ 4 mDP to DP adapters/ Mouse/ Keyboard/ Ubuntu/ 3Yrs UPS APC Smart-UPS C 1000VA LCD (SMC1000I) Power supply K270 UKR (920-003762) Logitech M330 Silent Plus Mouse Black (910-004909) Display 24 "Dell UltraSharp U2415 (860-BBEW / 210-AEVE)	Regarding PC set, the synchronization configuration will run stably and better, in terms of specifications, the computer has the same configuration compared to the proposed computer. Dell's 3-years warranty is also an advantage.

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	Display 24" Dell UltraSharp U2415 (860-BBEW / 210-AEVE) Mouse pad A4Tech X7-200MP	Mouse pad A4Tech X7-200MP	
WP 2 and 3 - Development	PC set 6 pcs, includes: Intel Core i5-7500 3.4GHz / 8GT / s / 6MB (BX80677I57500) s1151 BOX MSI B250 PC Mate (s1151, Intel B250, PCI-Ex16) RAM Kingston DDR4-2400 8192MB PC4-19200 HyperX Fury Đen (HX424C15FB2 / 8) SSD Kingston HyperX Fury 120GB 2.5 "SATAIII MLC (SHFS37A / 120G) HDD Western Digital WD1003FZEX black 1TB 7200 rpm 64MB 3.5 SATA III Computer case Chieftec Libra LG-01B-OP (Miditower) Power Supply Chieftec GPS-700A8 700 W UPS APC Back-UPS 800VA (BX800CI-RS) USB Logitech Wireless Keyboard K270 UKR (920-003762) Logitech M330 Silent Plus Mouse Black (910-004909) Display 24" Dell UltraSharp U2412M Black Mouse pad A4Tech X7-200MP	PC set 6 pcs, includes: Dell Optiplex 3050MT/ Intel core i5-7500 (3.40GHz upto 3.80GHz, 6MB) / Ram 16GB DDR4 2400Mhz/ 120GB SSD + HDD 1TB / Integrated Intel HD Graphics/ DVDRW/ Key & Mouse/ Fedora/ Malaysia/ 1 Year UPS APC Smart-UPS C 1000VA LCD (SMC1000I) Display 24 "Dell UltraSharp U2412M black Power supply Logitech K270 UKR (920-003762) Logitech Wireless Keyboard K270 UKR (920-003762) Logitech M331 -2.4 GHz wireless Silent Plus Mouse Black Mouse pad A4Tech X7-200MP	Set of 6 Set PC - Is also a product of Dell with the advantages of design, three years warranty - Along with that is the configuration similar to the project requested. The 1000VA UPS is better than the set 1 project - K270 keyboard and M331 mouse follow the required project. Dell U2414 monitor has similar quality and style compared to the required project configuration
WP 2 and 3 - Development	Network and office equipment: Router Linksys EA8500 (1pc.) Switchboard Linksys LGS116P-EU (1pc.) Professional swage tool Brunt (BT-500) RJ-45 (8P8C) (1pc.) Copper twisted pair cable Gemix CAT5e UTP 4 x 2 x 0.48 mm, 305 m (GC 1502) Connector UTP RJ-45, Cat 5, 8P8C, 30U, package of 100 pcs Patch Cord EvroMedia (PC-UTP-2M/LUF-PA26C-U20-C5e-Gy) 2m RJ-45 CU UTP, grey, 2 m, 5e cat. (20pcs.) KOPOS Floor cable channels LO 75 KD (74x18 mm, 12 m) KOPOS Floor cable channels LO	EA8500 (1pc.) LGS116P-EU (1pc.) Professional tool cutting tool (BT-500) RJ-45 (8P8C) (1pc.) Copper twisted pair cable Gemix CAT5e UTP 4 x 2 x 0.48 mm, 305 m (GC 1502) Connector UTP RJ-45, Cat 5, 8P8C, 30U, package of 100 pcs Hard Drive 1T Toshiba Canvio Advance Portable Toshiba Canvio Advance Portable Hard Drive 2TB	EA8500 (1pc.) Products as required by the project LGS116P-EU (1pc.) Products as required by the project Professional tool cutting tool (BT-500) RJ-45 (8P8C) (1pc.): The product is full of features similar to the project code required Copper twisted pair cable Gemix CAT5e UTP 4 x 2 x 0.48 mm, 305 m (GC 1502) similar to the project code required

	50 KD (50x14 mm, 8 m) External socket UTP RJ-45, 1 port EvroMedia MB-UTP1 (8pcs.) External socket UTP RJ-45, 2 ports EvroMedia MB-UTP2 (4pcs.) Transcend StoreJet 25A3 1TB TS1TSJ25A3W 2.5 USB 3.0 External (1pc.) Transcend StoreJet 25H3P 2TB TS2TSJ25H3P 2.5 USB 3.0 External (1pc.) Multifunction device HP LaserJet Pro M426dw with Wi-Fi (F6W13A) + USB (1pc.)	HP LASERJET PRO MFP M426FDW multifunction printer (F6W15A).	Connector UTP RJ-45, Cat 5, 8P8C, 30U, package of 100 pcs: similar to the project code required Hard Drive 1T Toshiba Canvio Advance Portable: similar to the project code required 3-years warranty Toshiba Canvio Advance Portable Hard Drive 2TB, 3-years warranty HP LASERJET PRO MFP M426FDW multifunction printer (F6W15A). The printer has features with the required project, with additional fax functions
WP 2 and 3 - Development	Portable computing sets (3 pcs. Each item), include: Labtop Dell Inspiron 5378 (I135810NIW-KG) 13,3 "IPS (1920x1080) Full HD, Multi-touch, gloss / Intel Core i5-7200U (2,5 - 3,1 GHz) / RAM 8 Gb / SSD 256 Gb / Intel HD graphic 620 / without ODD / Wi-Fi / Bluetooth 4.2 / web-camera / Windows 10 Home 64bit / 1,68 kg / Logitech Mouse M330 Silent Plus Mouse Black (910-004909) Mouse pad A4Tech X7-200MP	Portable computing sets Dell Inspiron 13 5379 / Grey/ Intel Core i5-8250U (1.60Ghz upto 3.40Ghz, 6MB)/ Ram 8GB DDR4/ HDD256GB SSD/ 13.3 inch FHD Touch/ Intel UHD Graphics 620 / Pin 3 Cell 42Whr/ WC + BT + Wifi/ LED_KB /Win 10 SL+OFF 365 Wideless mouse Logitech M331 -2.4 GHz wireless (Black) Mouse pad A4Tech X7-200MP	Labtop Dell Inspiron 5378 has no longer imported to Vietnam, therefore switch to the same model with more powerful configuration, faster processing. The M331 mouse is newer than the M330 mouse, has better parameters
WP 2 and 3 - Development	Software: Windows 10 Education (WINEDU SNGL SA OLP NL Acdmc) (7 pcs). Microsoft Office Standard 2016 (OfficeStd 2016 UKR OLP NL Acdmc) (13 pcs.).	FQC-09512 WinPro 10 SNGL Upgrd OLP NL Acdmc 021-10597 OfficeStd 2019 SNGL OLP NL Acdmc	The software meets the product that the project requires, directly from the mircrosoft company

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3. Current usage of equipment:

STT	Equipment	Model	Production Year	No.	Usage/Position
A	*B*	*C*	*1*	*2*	*E*
WP 2 and 3 - Development	Dell Precision 3620/Intel Core i7-6700 (3.40 GHz,8MB)/ Ram 32GB/ 250GB SSD + 1TB HDD/ DVDRW/ VGA 4GB Quadro P1000/ Mouse/ Keyboard/ Fedora/ 3Yrs	Dell 3620	2018	1	Nghiem Trung Dung
	UPS APC Smart-UPS C 1000VA	APC	2018	1	Nghiem Trung Dung
	Keyboard Logitech K270	K270	2018	1	Nghiem Trung Dung
	Display Dell U2415 24.0 Inch	U2415	2018	1	Nghiem Trung Dung
	Mouse Dell WM126	WM126	2018	1	Nghiem Trung Dung
WP 2 and 3 - Development	Dell Optiplex 3060/ Intel core i5-7500 (3.40GHz upto 3.80GHz, 6MB) / Ram 16GB DDR4 2400Mhz/ 120GB SSD + HDD 1TB / Integrated Intel HD Graphics/ DVDRW/ Key & Mouse/ Fedora/ Malaysia/ 1 Year	Dell 3060	2018	6	01 INTENSE office-P310-C10 02: Nguyễn Thị Thu Hiền-P307-C10 02: INEST 01:Hoàng Thu Hương
	UPS APC Smart-UPS C 1000VA	APC	2018	1	INTENSE office
	Keyboard Logitech K270	K270	2018	6	03 INTENSE office -P310 01: Nguyen Thi Thu Hien - P307 02: INEST
	Mouse Dell WM126	WM126	2018	6	03 INTENSE office - P310 01: Nguyen Thi Thu Hien - P307 02: INEST

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	Screen LCD Dell Ultrasharp U2412M 24 inch	U2412	2018	6	03 INTENSE office -P310 01: Nguyen Thi Thu Hien -P307 02: INEST
WP 2 and 3 - Development	Wifi Linksys EA8500 AC2600Mbps	EA8500	2018	1	INTENSE office
	Switchboard Linksys LGS116P	LGS116P	2018	1	INTENSE office
	Connector Plug Talon	-	2018	1	INTENSE office
	Cable AMP Cat5E chính hãng	-	2018	305	INTENSE office
	Internet RJ45	-	2018	100	INTENSE office
	Printer HP LASERJET PRO MFP M426FDW	M426FDW	2018	1	INTENSE office
	Toshiba Canvio Advance Portable Hard Drive 1TB	Toshiba Canvio	2018	1	Nghiem Trung Dung
	Toshiba Canvio Advance Portable Hard Drive 2TB	Toshiba Canvio	2018	1	Nguyen Thi Thu Hien
WP 2 and 3 - Development	Mouse Dell WM126	WM126	2018	3	01: Nghiem Trung Dung 01: External Affair Office 01: Ly Bich Thuy
	Dell Inspiron 13 5379 / Grey/ Intel Core i5-8250U (1.60Ghz upto 3.40Ghz, 6MB)/ Ram 8GB DDR4/256GB SSD/ 13.3 inch FHD Touch/ Intel UHD Graphics 620 / Pin 3 Cell 42Whr/ WC + BT + Wifi/ LED_KB /Win 10 SL+OFF 365	Dell 5379	2018	3	01: Nghiem Trung Dung 01: External Affair Office 01: Ly Bich Thuy

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