

**IN THE THIRD SESSION OF THE SEVENTH PARLIAMENT OF THE  
FOURTH REPUBLIC OF GHANA**

**REPORT OF THE FINANCE COMMITTEE ON THE REQUEST  
FOR WAIVER OF IMPORT DUTIES, IMPORT VAT, GETFUND  
LEVY, IMPORT NHIL, EXIM LEVY, SPECIAL IMPORT LEVY  
AMOUNTING TO THE GHANA CEDI EQUIVALENT OF  
TWENTY-SIX MILLION, NINE HUNDRED AND SIXTY-SIX  
THOUSAND AND EIGHTY-THREE UNITED STATES DOLLARS  
(US\$26,966,083.00) ON PROJECT MATERIALS AND  
EQUIPMENT TO BE PROCURED FOR THE REHABILITATION  
AND UP-GRADING OF EQUIPMENT IN TECHNICAL  
UNIVERSITIES, POLYTECHNICS AND TECHNICAL AND  
VOCATIONAL TRAINING CENTERS UNDER THE  
GOVERNMENT CONCESSIONAL LOAN AGREEMENT  
BETWEEN THE GOVERNMENT OF THE REPUBLIC OF GHANA  
AND THE EXPORT-IMPORT BANK OF CHINA**

**1.0 INTRODUCTION**

The request for waiver of Import Duties, Import VAT, GETFund Levy, Import NHIL, EXIM Levy, Special Import Levy amounting to the Ghana Cedi equivalent of Twenty-Six Million, Nine Hundred and Sixty-Six Thousand and Eighty-Three United States Dollars (US\$26,966,083.00) on Project materials and equipment to be procured for the Rehabilitation and Up-Grading of Equipment in Technical Universities, Polytechnics and Technical and Vocational Training Centers under the Government Concessional Loan Agreement between the

Government of the Republic of Ghana and the Export-Import Bank of China was *laid* in the House on Wednesday 3<sup>rd</sup> April, 2019 by the Honourable Deputy Minister for Finance, Mr. Kwaku Agyeman Kwarteng on behalf of the Minister responsible for Finance.

Pursuant to Order 169 of the Standing Orders of the House, the Request was *referred* to the Finance Committee for consideration and report.

The Committee met and considered the request with a Deputy Minister for Education, Hon. Gifty Twum Ampofo, a Deputy Minister for Finance, Hon. Kwaku Agyeman Kwarteng and a team of officials from the Ministries of Finance and Education and hereby presents this report to the House pursuant to order 161(1) of the Standing Orders of the House.

## **2.0 BACKGROUND**

In 2010, Government requested funding from the People's Republic of China to finance the rehabilitation and development of ten (10) Technical Institutions, five (5) Polytechnics and the Technical Examinations Unit of the Ghana Education Service. The scope of work was later increased to thirteen (13) Technical Institutes and ten (10) Polytechnics/Technical Universities.

The proposed intervention is part of the on-going measures by the education sector to expand equitable access to and quality of

Technical and Vocational Education and Training (TVET) in response to overwhelming social demand.

The Project is designed to support Government's effort within the context of the human capital development priorities and to resolve key development challenges of low quality skills produced by technical, vocational education and training sub-sector in the country.

The project objectives are aligned to Ghana's Development Strategy and the Goal 4 of the Sustainable Development Goals referred to as "Education 2030" which emphasizes Skills Development and the enhancement of the competitiveness of goods and services produced in the country through improved production of human capital critical for growth and poverty reduction.

The project is further in tandem with the Education Sector Development Plan (ESDP) (2016-2020) which emphasizes improving equitable access to and quality of TVET.

### **3.0 PROJECT OBJECTIVE**

The Objective of the Project is to improve the employability of Ghanaian youth by providing them with the relevant skills and competencies required for self and formal employment. This is with the view not only to help reduce unemployment among the youth but to also help encourage indigenous entrepreneurship and

further provide Ghanaian industries with the relevant manpower to make them globally competitive.

#### **4.0 TOTAL WAIVER REQUESTED**

The total amount of taxes and duties for which waiver is being sought is the Ghana Cedi equivalent of **Twenty-Six Million, Nine Hundred and Sixty-Six Thousand and Eighty-Three United States Dollars (US\$26,966,083.00)**.

**Attachment: Please find attached as APPENDIX, the detailed assessment of the relevant taxes and duties.**

#### **5.0 OBSERVATIONS AND RECOMMENDATIONS**

##### **5.1 Parliamentary Approval of Project**

The Committee noted that Parliament at its Thirty-Sixth Sitting of the First Meeting held on Friday 23<sup>rd</sup> March 2018, approved by resolution the Government Concessional Loan Agreement between the Government of the Republic of Ghana and the Export-Import Bank of China for an amount of not exceeding Seven Hundred and Fifty-Four Million Renminbi (RMB754,000,000.00) [equivalent to One Hundred and Nineteen Million, One Hundred and One Thousand, Nine Hundred and Forty-Six United States Dollars (US\$119,101,946.00)] to finance the Rehabilitation and Up-Grading of Equipment in Technical Universities, Polytechnics and Technical and Vocational Training Centers.

Further to the above, Parliament at its Forty-Third Sitting of the Second Meeting held on Wednesday 25<sup>th</sup> July 2018, approved by resolution the Contract Agreement between the Government of the Republic of Ghana (Ministry of Education) and the AVIC International Holding Corporation of the People's Republic of China for the Ghana-China Project on the Rehabilitation and Upgrading of Equipment in Polytechnics and Technical Institutes (including Technical Universities/Polytechnics).

On that same 25<sup>th</sup> day of July, 2018 the Honourable House approved the Supplementary Contract Agreements No. 1 & 2 between the Government of the Republic of Ghana (Ministry of Education) and the AVIC International Holding Corporation of the People's Republic of China for the implementation of the Project.

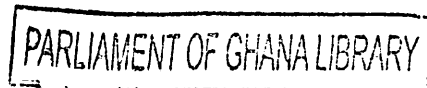
## **5.2 Need for Waiver**

The Committee noted that as part of the Employer's Obligation for the Works, Clause 2.7 Of the Agreement provides that "*The Employer shall be responsible for customs clearance of the equipment and materials under this Agreement for the Project as well as for payment of any taxes, duties and other levies relating to the importation of the equipment and materials under this Agreement for the Project*"

*It is further provided in clause 4.2.1 that "Any and all taxes and duties on the consideration of this Contract and all other presently or hereafter existing taxes and duties, which may be assessed or imposed in Ghana upon the Contractor or in the performance of the Agreement, shall be borne and paid by the Employer or fully reimbursed by the Employer"*

Consequently, it was explained to the Committee that the Government of Ghana is fully responsible for the component of the project financing cost covering taxes and other fiscal levies which may be imposed in the Republic of Ghana with respect to the supply and purchase of materials and equipment required for the execution of the project.

### **5.3 Benefits of the Project**



The Committee observed that the project when implemented is expected to produce highly skilled human capital through:

- i. Improved Teaching and Learning Environment in the beneficiary Public TVET institutions
- ii. Increased supply of high caliber TVET graduates
- iii. Increased participation levels at TVET; and
- iv. Increased supply of high caliber TVET instructors.

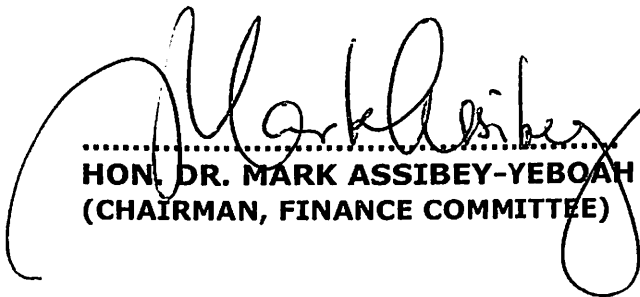
## **CONCLUSION**

The Committee is satisfied that the request is in consonance with the Contract Agreement between the Government of the Republic of Ghana (Ministry of Education) and the AVIC International Holding Corporation of the People's Republic of China for the Ghana-China Project on the Rehabilitation and Upgrading of Equipment in Polytechnics and Technical Institutes (including Technical Universities/Polytechnics).

The Committee therefore recommends to the House to adopt this report and *approve by resolution*, the **request for waiver of Import Duties, Import VAT, GETFund Levy, Import NHIL, EXIM Levy, Special Import Levy** amounting to the Ghana Cedi equivalent of **Twenty-Six Million, Nine Hundred and Sixty-Six Thousand and Eighty-Three United States Dollars (US\$26,966,083.00)** on Project materials and equipment to be procured for the **Rehabilitation and Up-Grading of Equipment in Technical Universities, Polytechnics and Technical and Vocational Training Centers** under the Government Concessional Loan Agreement between the **Government of the Republic of Ghana** and the **Export-Import Bank of China** in

accordance with Article 174(2) of the 1992 Constitution of the Republic of Ghana.

Respectfully submitted.



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**HON. DR. MARK ASSIBEY-YEBOAH**  
**(CHAIRMAN, FINANCE COMMITTEE)**



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**MS. EVELYN BREFO-BOATENG**  
**(CLERK, FINANCE COMMITTEE)**

**4<sup>TH</sup> APRIL, 2019**



# APPENDIX

## TAX ASSESSMENT AVIC VOCATIONAL TRAINING PROJECT

Description of Goods	unit	Qty	CIF (USD)	I/D Rate	Imp. Duty	Nhil/Gfund 5%	Imp. VAT 12.5%	AU Levy 2%	Eco. Levy 0.5%	EXIM 0.75%	SIL 2%	TOTAL (USD)
<b>Construction Material</b>												
Aluminium window	pc	3000	450,000	20%	90000	22500	70313	9000	2250	3375	9000	206,438
Screen Window	pc	3000	60,000	20%	12000	3000	9375	1200	300	450	1200	27,525
Fire-proof door	pc	320	160,000	20%	32000	8000	25000	3200	800	1200	3200	73,400
door	pc	2500	875,000	20%	175000	43750	136719	17500	4375	6563	17500	401,406
Rolling shutter door	pc	150	90,000	20%	18000	4500	14063	1800	450	675	1800	41,288
SBS modified botuminous roll	m <sup>2</sup>	20000	80,000	20%	16000	4000	12500	1600	400	600	1600	36,700
Extruded polystyrene board	m <sup>2</sup>	10000	200,000	20%	40000	10000	31250	4000	1000	1500	4000	91,750
Roofing shingle	m <sup>2</sup>	15000	105,000	20%	21000	5250	16406	2100	525	788	2100	48,169
High voltage feeder pillar KYN28	set	32	640,000	20%	128000	32000	100000	12800	3200	4800	12800	293,600
Low voltage feeder pillar GCS	set	64	320,000	20%	64000	16000	50000	6400	1600	2400	6400	146,800
Transformer	set	16	400,000	20%	80000	20000	62500	8000	2000	3000	8000	183,500
Copper bar	m	2000	200,000	20%	40000	10000	31250	4000	1000	1500	4000	91,750
Frame circuit breaker	pc	90	8,100	20%	1620	405	1266	162	41	61	162	3,716
Plastic circuit breaker	pc	1800	72,000	20%	14400	3600	11250	1440	360	540	1440	33,030
Wall hanging power distribution box	pc	100	100,000	20%	20000	5000	15625	2000	500	750	2000	45,875
Ground power distribution cabinet	pc	100	220,000	20%	44000	11000	34375	4400	1100	1650	4400	100,925
High voltage cable	m	43000	1,290,000	20%	258000	64500	201563	25800	6450	9675	25800	591,788
Low voltage cable	m	42000	1,050,000	20%	210000	52500	164063	21000	5250	7875	21000	481,688
Low voltage cable	m	1720000	516,000	20%	103200	25800	80625	10320	2580	3870	10320	236,715
Double tube fluorescent lamp	set	10000	300,000	20%	60000	15000	46875	6000	1500	2250	6000	137,625
Ceiling fluorescent lamp	set	3160	63,200	20%	12640	3160	9875	1264	316	474	1264	28,993
Switch 6A	pc	8896	35,584	20%	7117	1779	5560	712	178	267	712	16,324
Communication box	pc	144	28,800	20%	5760	1440	4500	576	144	216	576	13,212
CAT 5E communication cable	m	114400	171,600	20%	34320	8580	26813	3432	858	1287	3432	78,722
Total equipotential box	pc	90	4,500	20%	900	225	703	90	23	34	90	2,064
Safety exit indicator lamp and evacuation indicator lamp	pc	1440	79,200	20%	15840	3960	12375	1584	396	594	1584	36,333
Refractory cable	m	17200	18,920	20%	3784	946	2956	378	95	142	378	8,680
Lightning rod	m	25000	62,500	20%	12500	3125	9766	1250	313	469	1250	28,672
Cable tray	m	8000	120,000	20%	24000	6000	18750	2400	600	900	2400	55,050
Diesel generator set	set	16	640,000	5%	32000	32000	88000	12800	3200	4800	12800	185,600

B-type combined single bolt fire hydrant	set	144	43,200	10%	4320	2160	6210	864	216	324	864	14,958
Outdoor fire hydrant	pc	35	14,000	5%	700	700	1925	280	70	105	280	4,060
Inside-out galvanized steel pipe	m	11600	174,000	20%	34800	8700	27188	3480	870	1305	3480	79,823
Nodular cast iron pipe	m	4500	270,000	20%	54000	13500	42188	5400	1350	2025	5400	123,863
Water Meter	pc	32	3,200	10%	320	160	460	64	16	24	64	1,108
Backflow preventer	pc	144	8,640	10%	864	432	1242	173	43	65	173	2,992
Fire extinguisher	set	200	12,000	5%	600	600	1650	240	60	90	240	3,480
PPR water supply pipe	m	92880	92,880	20%	18576	4644	14513	1858	464	697	1858	42,609
UPVC drainpipe	m	47200	188,800	20%	37760	9440	29500	3776	944	1416	3776	86,612
Electrical piping	m	187200	84,240	20%	16848	4212	13163	1685	421	632	1685	38,645
pre-embedded box	pc	45920	27,552	20%	5510	1378	4305	551	138	207	551	12,639
Pipe hanger	pc	5900	11,800	20%	2360	590	1844	236	59	89	236	5,413
faucet tap water faucet hydrant	pc	1500	15,000	20%	3000	750	2344	300	75	113	300	6,881
Stool	pc	292	73,000	20%	14600	3650	11406	1460	365	548	1460	33,489
Automatic close flush valve of stool	pc	292	29,200	20%	5840	1460	4563	584	146	219	584	13,396
Urinal	pc	140	28,000	20%	5600	1400	4375	560	140	210	560	12,845
Automatic close flush valve of urinal	pc	140	21,000	20%	4200	1050	3281	420	105	158	420	9,634
Gate valve	pc	144	12,960	20%	2592	648	2025	259	65	97	259	5,945
Washing bowl	pc	210	21,000	20%	4200	1050	3281	420	105	158	420	9,634
Washing bowl tap	pc	210	21,000	20%	4200	1050	3281	420	105	158	420	9,634
Spray nozzkle	pc	2000	80,000	20%	16000	4000	12500	1600	400	600	1600	36,700
Alarm valve	pc	16	1,440	20%	288	72	225	29	7	11	29	661
Water flow indicator	pc	32	1,920	20%	384	96	300	38	10	14	38	881
Signal valve	pc	40	2,200	20%	440	110	344	44	11	17	44	1,009
End water-testing valve	pc	90	10,800	20%	2160	540	1688	216	54	81	216	4,955
Hydrant pump	set	16	96,000	5%	4800	4800	13200	1920	480	720	1920	27,840
Spray pump	set	16	80,000	5%	4000	4000	11000	1600	400	600	1600	23,200
Hydrant stabilizer pump	set	16	32,000	5%	1600	1600	4400	640	160	240	640	9,280
Spray stabilizer pump	set	16	128,000	5%	6400	6400	17600	2560	640	960	2560	37,120
Double wall bellows	m	2000	20,000	20%	4000	1000	3125	400	100	150	400	9,175
Ceiling board	m <sup>2</sup>	24400	439,200	20%	87840	21960	68625	8784	2196	3294	8784	201,483
Curtain	m <sup>2</sup>	14400	100,800	20%	20160	5040	15750	2016	504	756	2016	46,242
Exhaust fan	set	90	1,800	20%	360	90	281	36	9	14	36	826
Hanging fan	set	900	36,000	20%	7200	1800	5625	720	180	270	720	16,515
Partition board in toilet	m <sup>2</sup>	3200	176,000	20%	35200	8800	27500	3520	880	1320	3520	80,740
Ground tile	m <sup>2</sup>	24896	298,752	20%	59750	14938	46680	5975	1494	2241	5975	137,052
Wall brick	m <sup>2</sup>	8000	88,000	20%	17600	4400	13750	1760	440	660	1760	40,370
Steel Bar	T	1800	1,800,000	20%	360000	90000	281250	36000	9000	13500	36000	825,750

Equipment/Material for Construction material													
Normal Office Chair	pc	120	12,000	20%	2400	600	1875	240	60	90	240	5,505	
Sofa	set	5	5,000	20%	1000	250	781	100	25	38	100	2,294	
Conference Table	pc	10	2,000	20%	400	100	313	40	10	15	40	918	
Conference Chair	pc	100	5,000	20%	1000	250	781	100	25	38	100	2,294	
Bed	pc	100	20,000	20%	4000	1000	3125	400	100	150	400	9,175	
Mosquito Tent	pc	400	8,000	20%	1600	400	1250	160	40	60	160	3,670	
Bedding	pc	400	12,000	20%	2400	600	1875	240	60	90	240	5,505	
Covering Quilt	pc	400	20,000	20%	4000	1000	3125	400	100	150	400	9,175	
Quilt	pc	400	12,000	20%	2400	600	1875	240	60	90	240	5,505	
Sheet	pc	400	6,000	20%	1200	300	938	120	30	45	120	2,753	
Pillow	pc	400	2,000	20%	400	100	313	40	10	15	40	918	
Pillowcase	pc	400	2,000	20%	400	100	313	40	10	15	40	918	
Laptop	set	30	30,000	5%	1500	1500	4125	600	150	225	600	8,700	
A4 Print Machine	set	20	4,000	20%	800	200	625	80	20	30	80	1,835	
Drawing Printer	set	2	30,000	20%	6000	1500	4688	600	150	225	600	13,763	
Steel Safe	pc	4	1,200	20%	240	60	188	24	6	9	24	551	
Copy Machine	pc	3	15,000	20%	3000	750	2344	300	75	113	300	6,881	
Filing Cabinet	pc	30	9,000	20%	1800	450	1406	180	45	68	180	4,129	
Air Conditioner	set	30	15,000	20%	3000	750	2344	300	75	113	300	6,881	
Panel TV Set	set	12	6,000	20%	1200	300	938	120	30	45	120	2,753	
Refrigerator	set	10	6,000	20%	1200	300	938	120	30	45	120	2,753	
Plastic Water Tank	pc	3	1,500	20%	300	75	234	30	8	11	30	688	
Pickaxe	pc	500	5,000	10%	500	250	719	100	25	38	100	1,731	
Shovel	pc	500	4,000	10%	400	200	575	80	20	30	80	1,385	
Shovel Handle	pc	600	1,200	10%	120	60	173	24	6	9	24	416	
Portable Cutting Machine	set	60	6,000	5%	300	300	825	120	30	45	120	1,740	
Disks of Cutting Machine	pc	1000	3,000	5%	150	150	413	60	15	23	60	870	
Shear for Steelbar	pc	12	360	20%	72	18	56	7	2	3	7	165	
Carpentry Crowbar	pc	100	1,000	20%	200	50	156	20	5	8	20	459	
Electric Pickaxe	pc	10	8,000	10%	800	400	1150	160	40	60	160	2,770	
Electric Hammer	pc	20	10,000	10%	1000	500	1438	200	50	75	200	3,463	
Piling Small Iron Trowel	pc	800	4,000	10%	400	200	575	80	20	30	80	1,385	
Iron Trowel	pc	500	2,500	10%	250	125	359	50	13	19	50	866	
Measuring Tape	pc	20	1,600	5%	80	80	220	32	8	12	32	464	
Measuring Tape	pc	600	1,800	5%	90	90	248	36	9	14	36	522	
Total Station	set	2	4,000	20%	800	200	625	80	20	30	80	1,835	
Level Gauge	set	9	4,500	5%	225	225	619	90	23	34	90	1,305	
Level Ruler	pc	200	4,000	5%	200	200	550	80	20	30	80	1,160	
Aluminium Hanging Ruler	pc	400	12,000	5%	600	600	1650	240	60	90	240	3,480	

Wooden Trowel	pc	1000	10,000	5%	500	500	1375	200	50	75	200	2,900
Grey Board	pc	1000	8,000	20%	1600	400	1250	160	40	60	160	3,670
Small Grey Barrel	pc	5000	7,500	20%	1500	375	1172	150	38	56	150	3,441
Formwork	pc	5000	125,000	20%	25000	6250	19531	2500	625	938	2500	57,344
Fastener	pc	50000	60,000	20%	12000	3000	9375	1200	300	450	1200	27,525
Combined Scaffold	set	600	90,000	20%	18000	4500	14063	1800	450	675	1800	41,288
W-type Fastener	pc	10000	10,000	20%	2000	500	1563	200	50	75	200	4,588
Steel Tube	ton	200	200,000	20%	40000	10000	31250	4000	1000	1500	4000	91,750
Screw	set	60000	6,000	20%	1200	300	938	120	30	45	120	2,753
Iron Wire	ton	10	12,000	20%	2400	600	1875	240	60	90	240	5,505
Iron Nail	ton	10	12,000	20%	2400	600	1875	240	60	90	240	5,505
Electric Welding Rod	ton	20	24,000	20%	4800	1200	3750	480	120	180	480	11,010
Work Uniform	set	2000	50,000	20%	10000	2500	7813	1000	250	375	1000	22,938
Safety Helmet	pc	1000	8,000	10%	800	400	1150	160	40	60	160	2,770
Working Glove	pair	60000	30,000	20%	6000	1500	4688	600	150	225	600	13,763
Safety Belt	pc	500	10,000	20%	2000	500	1563	200	50	75	200	4,588
Labor Shoes	pair	2000	60,000	20%	12000	3000	9375	1200	300	450	1200	27,525
Dumper Truck	set	3	240,000	5%	12000	12000	33000	4800	1200	1800	4800	69,600
Pickup	set	4	208,000	5%	10400	10400	28600	4160	1040	1560	4160	60,320
Concrete-mixer Truck	set	3	240,000	5%	12000	12000	33000	4800	1200	1800	4800	69,600
Small-scle Road Roller	set	2	70,000	5%	3500	0	0	1400	350	525	0	5,775
Loader	set	6	390,000	5%	19500	0	0	7800	1950	2925	0	32,175
Tripller	set	10	60,000	5%	3000	0	0	1200	300	450	0	4,950
Polisher for Concrete Ground	set	20	20,000	5%	1000	0	0	400	100	150	0	1,650
Welding Machine	set	10	8,000	5%	400	0	0	160	40	60	0	660
Air Compressor	set	3	2,400	10%	240	0	0	48	12	18	0	318
Semi-automatic Cutting Machine	set	1	2,000	5%	100	0	0	40	10	15	0	165
Threading Machine	set	5	7,500	5%	375	0	0	150	38	56	0	619
Carpentry Circular Sawing Machine	set	15	12,000	5%	600	0	0	240	60	90	0	990
Concrete Mixing Machine	set	1	50,000	5%	2500	0	0	1000	250	375	0	4,125
Concrete Mixing Machine	set	16	80,000	5%	4000	0	0	1600	400	600	0	6,600
Concrete Vibrator	set	30	6,000	5%	300	0	0	120	30	45	0	495
Vibrating Bar	pc	60	3,000	5%	150	0	0	60	15	23	0	248
elevator hoister windlass	set	8	44,000	5%	2200	0	0	880	220	330	0	3,630
<b>Training Equipment</b>												
Electrical teaching and experiment table	set	150	1,013,850	20%	202770	50693	158414	20277	5069	7604	20277	465,104
Dual-trace Oscilloscope	set	150	121,500	10%	12150	6075	17466	2430	608	911	2430	42,069
Digital Multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880
Analog multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880

Electronic teaching and experiment table for analog circuit and digital circuit experiments	set	150	654,480	20%	130896	32724	102263	13090	3272	4909	13090	300,243
Dual-trace Oscilloscope	set	150	121,500	10%	12150	6075	17466	2430	608	911	2430	42,069
Analog multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880
Digital Multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880
Electric control (electric drive) teaching and experiment table	set	150	888,705	20%	177741	44435	138860	17774	4444	6665	17774	407,693
Analog multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880
Electric device teaching and experiment table	set	75	846,383	20%	169277	42319	132247	16928	4232	6348	16928	388,278
Analog multimeter	set	300	22,410	10%	2241	1121	3221	448	112	168	448	7,759
Digital Multimeter	set	300	22,410	10%	2241	1121	3221	448	112	168	448	7,759
Electrical and electronic automation teaching and experiment table	set	150	1,488,645	20%	297729	74432	232601	29773	7443	11165	29773	682,916
Dual-trace Oscilloscope	set	150	121,500	10%	12150	6075	17466	2430	608	911	2430	42,069
Analog multimeter	set	150	11,205	10%	1121	560	1611	224	56	84	224	3,880
Computer	set	150	130,950	5%	6548	6548	18006	2619	655	982	2619	37,976
Electronic assembly teaching and experiment table	set	150	737,910	20%	147582	36896	115298	14758	3690	5534	14758	338,516
Dual-trace Oscilloscope	set	300	243,000	10%	24300	12150	34931	4860	1215	1823	4860	84,139
Analog multimeter	set	300	22,410	10%	2241	1121	3221	448	112	168	448	7,759
Digital Multimeter	set	300	22,410	10%	2241	1121	3221	448	112	168	448	7,759
Motor assembly teaching and experiment table	set	15	178,538	20%	35708	8927	27896	3571	893	1339	3571	81,904
Analog multimeter	set	300	22,410	10%	2241	1121	3221	448	112	168	448	7,759
Suit for motor assembly	set	300	220,050	10%	22005	11003	31632	4401	1100	1650	4401	76,192
Projector	set	105	135,608	20%	27122	6780	21189	2712	678	1017	2712	62,210
Computer	set	105	91,665	5%	4583	4583	12604	1833	458	687	1833	26,583
UPS	set	255	29,835	5%	1492	1492	4102	597	149	224	597	8,652
Teacher's desk	set	105	18,900	20%	3780	945	2953	378	95	142	378	8,670
Hydraulic lifter	set	15	20,183	5%	1009	0	0	404	101	151	0	1,665
Hydraulic cart	set	30	13,500	5%	675	0	0	270	68	101	0	1,114
Spare Parts and Consumables for ELECTRICAL AND ELECTRONIC LAB (Poly)	set	5	231,827	10%	23183	11591	33325	4637	1159	1739	4637	80,270
Spare Parts and Consumables for ELECTRICAL AND ELECTRONIC LAB (TI)	set	10	463,653	10%	46365	23183	66650	9273	2318	3477	9273	160,540
Table Vice Model	set	270	7,290	20%	1458	365	1139	146	36	55	146	3,344

drawing desk	set	270	48,600	20%	9720	2430	7594	972	243	365	972	22,295
Tool set	set	270	39,123	20%	7825	1956	6113	782	196	293	782	17,948
Computer	set	286	249,678	5%	12484	12484	34331	4994	1248	1873	4994	72,407
CAD	set	286	720,720	5%	36036	36036	99099	14414	3604	5405	14414	209,009
Projector	set	16	20,664	20%	4133	1033	3229	413	103	155	413	9,480
UPS	set	286	33,462	20%	6692	1673	5228	669	167	251	669	15,351
Air condition	set	64	34,560	20%	6912	1728	5400	691	173	259	691	15,854
HUB	set	16	19,368	20%	3874	968	3026	387	97	145	387	8,885
Machine cabinet	set	16	5,328	20%	1066	266	833	107	27	40	107	2,444
Showcase of mechanical principle	set	16	335,448	20%	67090	16772	52414	6709	1677	2516	6709	153,887
Gear forming instrument	set	16	2,102	10%	210	105	302	42	11	16	42	728
Involute gear meshing transmission instrument	set	160	91,440	10%	9144	4572	13145	1829	457	686	1829	31,661
Shaft system	set	80	94,176	10%	9418	4709	13538	1884	471	706	1884	32,608
Secondary reducer	set	80	219,888	10%	21989	10994	31609	4398	1099	1649	4398	76,136
Multifunction material testing device	set	16	376,675	10%	37668	18834	54147	7534	1883	2825	7534	130,424
Fitter operation desk with supporting device	set	240	272,808	20%	54562	13640	42626	5456	1364	2046	5456	125,151
Gauge block A	set	64	18,950	10%	1895	948	2724	379	95	142	379	6,562
Gauge block B	set	64	20,160	10%	2016	1008	2898	403	101	151	403	6,980
Lever micrometer	set	160	35,568	10%	3557	1778	5113	711	178	267	711	12,315
Bubble inclinometer	set	160	11,376	10%	1138	569	1635	228	57	85	228	3,939
Surface roughness inspection instrument	set	80	678,024	10%	67802	33901	97466	13560	3390	5085	13560	234,766
Comprehensive hydraulic experiment device	set	98	2,582,408	10%	258241	129120	371221	51648	12912	19368	51648	894,159
General lathe	set	190	2,428,713	5%	121436	121436	333948	48574	12144	18215	48574	704,327
General milling machine	set	80	2,210,832	5%	110542	0	0	44217	11054	16581	0	182,394
General cylindrical grinder	set	16	548,942	5%	27447	0	0	10979	2745	4117	0	45,288
Surface grinder	set	16	441,317	5%	22066	0	0	8826	2207	3310	0	36,409
Bench drill	set	44	65,855	5%	3293	0	0	1317	329	494	0	5,433
Hydraulic lifter	set	16	21,528	5%	1076	0	0	431	108	161	0	1,776
Band sawing machine	set	32	321,264	5%	16063	0	0	6425	1606	2409	0	26,504
Cutting machine	set	16	7,690	5%	384	0	0	154	38	58	0	634
Sander	set	32	18,288	5%	914	0	0	366	91	137	0	1,509
Computer numerical control (CNC) lathe	set	98	3,519,180	5%	175959	0	0	70384	17596	26394	0	290,332
Computer numerical control (CNC) milling machine	set	32	1,984,003	5%	99200	0	0	39680	9920	14880	0	163,680
Computer numerical control (CNC) machining center	set	32	3,126,960	5%	156348	0	0	62539	15635	23452	0	257,974

Band sawing machine	set	32	321,264	5%	16063	0	0	6425	1606	2409	0	26,504
Cutting machine	set	16	7,690	5%	384	0	0	154	38	58	0	634
Hydraulic cart	set	32	30,787	5%	1539	0	0	616	154	231	0	2,540
Cabinet for lathe	set	432	116,251	5%	5813	0	0	2325	581	872	0	9,591
Air pump	set	64	230,400	5%	11520	0	0	4608	1152	1728	0	19,008
A1 plotter	set	6	32,400	20%	6480	1620	5063	648	162	243	648	14,864
A4 laser printer	set	6	8,100	20%	1620	405	1266	162	41	61	162	3,716
Teacher's Desk	set	318	57,240	20%	11448	2862	8944	1145	286	429	1145	26,259
Commodity Shelves	set	192	41,472	20%	8294	2074	6480	829	207	311	829	19,025
Computer	set	32	27,936	5%	1397	1397	3841	559	140	210	559	8,101
UPS	set	32	3,744	5%	187	187	515	75	19	28	75	1,086
Jack	set	64	35,539	20%	7108	1777	5553	711	178	267	711	16,304
Small carrier	set	64	24,192	20%	4838	1210	3780	484	121	181	484	11,098
Lifting Belt	set	64	20,736	20%	4147	1037	3240	415	104	156	415	9,513
Screwdriver	set	64	1,037	20%	207	52	162	21	5	8	21	476
Crowbar	set	64	1,728	20%	346	86	270	35	9	13	35	793
Work clothes	set	960	129,600	20%	25920	6480	20250	2592	648	972	2592	59,454
Protective glass	set	960	12,960	20%	2592	648	2025	259	65	97	259	5,945
Cutting Tools (Poly)	set	6	1,458,027	20%	291605	72901	227817	29161	7290	10935	29161	668,870
Cutting Tools (TI)	set	10	1,718,550	20%	343710	85928	268523	34371	8593	12889	34371	788,385
Spare Parts and Consumables for MECHANICAL ENGINEERING LAB (Poly)	set	6	1,000,048	10%	100005	50002	143757	20001	5000	7500	20001	346,266
Spare Parts and Consumables for MECHANICAL ENGINEERING LAB (TI)	set	10	1,513,908	10%	151391	75695	217624	30278	7570	11354	30278	524,191
Two-column lifter	set	30	85,509	10%	8551	4275	12292	1710	428	641	1710	29,607
Four-column lifter	set	15	98,402	10%	9840	4920	14145	1968	492	738	1968	34,072
Head light detector	set	15	27,162	10%	2716	1358	3905	543	136	204	543	9,405
Four-wheel locator	set	15	203,661	10%	20366	10183	29276	4073	1018	1527	4073	70,518
Tire disassembler	set	15	26,123	10%	2612	1306	3755	522	131	196	522	9,045
Balancing Machine	set	15	22,397	10%	2240	1120	3219	448	112	168	448	7,755
Light Drum	set	75	14,243	10%	1424	712	2047	285	71	107	285	4,931
Car System Diagnostic Scanner	set	45	95,094	10%	9509	4755	13670	1902	475	713	1902	32,926
Cooling System Tester	set	15	3,227	10%	323	161	464	65	16	24	65	1,117
Charger starter	set	15	9,315	10%	932	466	1339	186	47	70	186	3,225
Automobile	set	15	472,500	10%	47250	23625	67922	9450	2363	3544	9450	163,603
Horizontal jack A	set	30	4,320	10%	432	216	621	86	22	32	86	1,496
Horizontal jack B	set	15	5,198	10%	520	260	747	104	26	39	104	1,800
Separable jack A	set	15	3,173	10%	317	159	456	63	16	24	63	1,098
Separable jack B	set	15	3,929	10%	393	196	565	79	20	29	79	1,360

Motor hoist	set	15	4,496	10%	450	225	646	90	22	34	90	1,557
Gearbox lifter (double layer)	set	15	8,775	10%	878	439	1261	176	44	66	176	3,038
Gearbox lifter (single layer)	set	15	5,481	10%	548	274	788	110	27	41	110	1,898
Safety bracket	set	15	1,080	10%	108	54	155	22	5	8	22	374
press	set	15	10,125	10%	1013	506	1455	203	51	76	203	3,506
Air guns	set	60	14,040	10%	1404	702	2018	281	70	105	281	4,861
Small Rasp Kit	set	60	918	10%	92	46	132	18	5	7	18	318
Tools trolley	set	75	20,183	10%	2018	1009	2901	404	101	151	404	6,988
Toolbox	set	15	878	20%	176	44	137	18	4	7	18	403
Electric hand drill	set	30	2,700	20%	540	135	422	54	14	20	54	1,239
Threading die	set	30	1,755	20%	351	88	274	35	9	13	35	805
Battery connecting wire	set	15	864	20%	173	43	135	17	4	6	17	396
Kits	set	15	6,345	10%	635	317	912	127	32	48	127	2,197
Tensioner	set	15	2,768	10%	277	138	398	55	14	21	55	958
Ball head detacher	set	15	1,485	20%	297	74	232	30	7	11	30	681
Dust Blowing Gun	set	60	2,268	20%	454	113	354	45	11	17	45	1,040
Torque Wrench A	set	15	5,076	20%	1015	254	793	102	25	38	102	2,329
Torque Wrench B	set	15	6,062	20%	1212	303	947	121	30	45	121	2,781
Screw extractor	set	30	1,080	20%	216	54	169	22	5	8	22	495
Sata tool	set	200	54,000	10%	5400	2700	7763	1080	270	405	1080	18,698
Tail gas analyzer	set	15	65,151	10%	6515	3258	9365	1303	326	489	1303	22,559
Sound Level Mete	set	15	6,102	10%	610	305	877	122	31	46	122	2,113
Lubrication oil quality analyzer	set	15	5,765	10%	576	288	829	115	29	43	115	1,996
Ultrasonic cleaner for nozzle	set	15	13,595	10%	1359	680	1954	272	68	102	272	4,707
Automatic gearbox oil	set	15	10,989	10%	1099	549	1580	220	55	82	220	3,805
Brake Oil Changer	set	15	9,774	10%	977	489	1405	195	49	73	195	3,384
Machine oil filler	set	30	10,260	10%	1026	513	1475	205	51	77	205	3,553
Parts Washer	set	15	14,945	10%	1494	747	2148	299	75	112	299	5,175
Oil pumping machine	set	30	10,746	10%	1075	537	1545	215	54	81	215	3,721
Gear oil filler	set	15	5,198	10%	520	260	747	104	26	39	104	1,800
Manual Grease Gun	set	60	2,970	10%	297	149	427	59	15	22	59	1,028
Refrigerant recycling filling machine	set	15	44,145	5%	2207	2207	6070	883	221	331	883	12,802
Air conditioning leak detector	set	60	11,880	10%	1188	594	1708	238	59	89	238	4,113
Portable vacuum pump	set	15	2,930	5%	146	146	403	59	15	22	59	850
Refrigerant meter	set	15	5,670	10%	567	284	815	113	28	43	113	1,963
Air Compressor	set	15	100,778	10%	10078	5039	14487	2016	504	756	2016	34,894
Dryer	set	15	21,371	20%	4274	1069	3339	427	107	160	427	9,804
Tail gas drainage and exhaust system	set	20	27,000	20%	5400	1350	4219	540	135	203	540	12,386
Compressed air hose winder	set	75	12,285	20%	2457	614	1920	246	61	92	246	5,636



Gas tank	set	15	24,233	20%	4847	1212	3786	485	121	182	485	11,117
Filter A	set	15	918	5%	46	46	126	18	5	7	18	266
Filter B	set	15	918	5%	46	46	126	18	5	7	18	266
Filter C	set	15	918	5%	46	46	126	18	5	7	18	266
Cylinder gas leakage detector	set	30	4,374	10%	437	219	629	87	22	33	87	1,514
Valve spring compressor	set	15	1,485	10%	149	74	213	30	7	11	30	514
Piston ring expander	set	15	702	10%	70	35	101	14	4	5	14	243
Piston ring compressor	set	15	702	10%	70	35	101	14	4	5	14	243
Time correcting gun	set	15	2,187	10%	219	109	314	44	11	16	44	757
Feeler	set	150	1,620	10%	162	81	233	32	8	12	32	561
Universal Spark Plug Socket A	set	15	513	10%	51	26	74	10	3	4	10	178
Universal Spark Plug Socket B	set	15	513	10%	51	26	74	10	3	4	10	178
Wrench	set	75	878	20%	176	44	137	18	4	7	18	403
Oil grid wrench (16)	set	15	1,445	20%	289	72	226	29	7	11	29	663
Oil grid wrench (small)	set	15	122	20%	24	6	19	2	1	1	2	56
Oil grid wrench (larger)	set	15	311	20%	62	16	49	6	2	2	6	142
Oil grid wrench (middle)	set	15	176	20%	35	9	27	4	1	1	4	81
Machine filter wrench (flat)	set	15	311	20%	62	16	49	6	2	2	6	142
Machine filter wrench (round)	set	15	203	20%	41	10	32	4	1	2	4	93
Damping spring Disassembler	set	15	3,915	20%	783	196	612	78	20	29	78	1,796
Brake disc processing machine	set	15	41,526	5%	2076	2076	5710	831	208	311	831	12,043
Tires nitrogen filling machine	set	15	14,418	5%	721	721	1982	288	72	108	288	4,181
Tire pressure gauge	set	15	743	10%	74	37	107	15	4	6	15	257
Front bundle meter	set	15	2,592	10%	259	130	373	52	13	19	52	897
Overall repair machine	set	60	64,584	5%	3229	3229	8880	1292	323	484	1292	18,729
Carbon dioxide protection welding machine	set	60	110,754	5%	5538	5538	15229	2215	554	831	2215	32,119
Paint Baking Room	set	15	332,775	10%	33278	16639	47836	6656	1664	2496	6656	115,223
Spray gun cleaning machine	set	15	21,371	5%	1069	1069	2938	427	107	160	427	6,197
Dust-free dry grinding system	set	60	207,684	10%	20768	10384	29855	4154	1038	1558	4154	71,911
Spray gun (JET/B JET/H)	set	15	32,684	10%	3268	1634	4698	654	163	245	654	11,317
Infrared paint light	set	60	68,418	20%	13684	3421	10690	1368	342	513	1368	31,387
Grinding machine	set	15	1,958	5%	98	98	269	39	10	15	39	568
Sheet metal tool kit	set	15	2,754	20%	551	138	430	55	14	21	55	1,263
Manual rivet gun	set	60	3,240	20%	648	162	506	65	16	24	65	1,486
Cold water washing machine	set	15	7,331	5%	367	367	1008	147	37	55	147	2,126
Foam Cleaner	set	15	2,930	20%	586	146	458	59	15	22	59	1,344
Wax-polishing machine	set	60	14,148	5%	707	707	1945	283	71	106	283	4,103
Glaze sealing machine	set	60	7,830	5%	392	392	1077	157	39	59	157	2,271
Steam engine	set	15	8,249	5%	412	412	1134	165	41	62	165	2,392

Dirt absorption and water suction machine	set	15	4,280	5%	214	214	588	86	21	32	86	1,241
Carpet cleaning machine	set	15	17,105	5%	855	855	2352	342	86	128	342	4,960
Intelligent Pressure Detecting System	set	15	15,269	10%	1527	763	2195	305	76	115	305	5,287
Fuel pressure gauge	set	15	2,930	10%	293	146	421	59	15	22	59	1,014
Fuel pressure gauge group	set	15	6,750	10%	675	338	970	135	34	51	135	2,337
Oil/automatic gear box	set	15	1,958	10%	196	98	281	39	10	15	39	678
Vacuum meter	set	15	756	10%	76	38	109	15	4	6	15	262
Cylinder Pressure gauge	set	60	3,078	10%	308	154	442	62	15	23	62	1,066
Display Instrument Tester	set	15	9,167	10%	917	458	1318	183	46	69	183	3,174
Multimeter	set	15	608	10%	61	30	87	12	3	5	12	210
Automobile special multimeter	set	15	4,158	10%	416	208	598	83	21	31	83	1,440
Battery Tester	set	15	473	10%	47	24	68	9	2	4	9	164
Vernier Calipers	set	300	6,750	10%	675	338	970	135	34	51	135	2,337
Micrometer A	set	150	3,375	5%	169	169	464	68	17	25	68	979
Micrometer B	set	150	3,375	5%	169	169	464	68	17	25	68	979
Micrometer C	set	150	4,050	5%	203	203	557	81	20	30	81	1,175
Micrometer D	set	150	4,725	5%	236	236	650	95	24	35	95	1,370
Internal dial indicator	set	15	1,283	10%	128	64	184	26	6	10	26	444
Dial indicator	set	15	338	10%	34	17	49	7	2	3	7	117
Ruler	set	15	189	10%	19	9	27	4	1	1	4	65
Motor roll-over stand	set	55	19,800	10%	1980	990	2846	396	99	149	396	6,856
EFI engine	set	55	420,750	10%	42075	21038	60483	8415	2104	3156	8415	145,685
EFI engine fault training table	set	35	535,500	20%	107100	26775	83672	10710	2678	4016	10710	245,661
High-control and high-pressure common rail diesel engine training table	set	35	535,500	20%	107100	26775	83672	10710	2678	4016	10710	245,661
Common diesel engine training table	set	35	598,500	20%	119700	29925	93516	11970	2993	4489	11970	274,562
Transfer case assembly and disassembly	set	75	74,250	20%	14850	3713	11602	1485	371	557	1485	34,062
Automatic Transmission Dissecting Bench	set	30	91,800	20%	18360	4590	14344	1836	459	689	1836	42,113
Automatic transmission training table	set	30	232,092	20%	46418	11605	36264	4642	1160	1741	4642	106,472
Automatic Transmission removable roll-over stand	set	30	108,000	20%	21600	5400	16875	2160	540	810	2160	49,545
Manual transmission disassembly roll-over stand	set	30	108,000	20%	21600	5400	16875	2160	540	810	2160	49,545
Continuously-variable transmission disassembly roll-over stand	set	30	108,000	20%	21600	5400	16875	2160	540	810	2160	49,545

Continuously-variable transmission Dissecting Bench	set	30	108,000	20%	21600	5400	16875	2160	540	810	2160	49,545
Continuously-variable transmission training table	set	30	257,877	20%	51575	12894	40293	5158	1289	1934	5158	118,301
Manual transmission Dissecting Bench	set	30	108,000	20%	21600	5400	16875	2160	540	810	2160	49,545
Air conditioning compressor assembly and disassembly	set	100	27,000	20%	5400	1350	4219	540	135	203	540	12,386
Auto starter assembly and disassembly	set	100	10,440	20%	2088	522	1631	209	52	78	209	4,789
Auto motor assembly and disassembly	set	100	15,300	20%	3060	765	2391	306	77	115	306	7,019
Automotive electrical training table	set	60	594,000	20%	118800	29700	92813	11880	2970	4455	11880	272,498
starting system teaching board	set	20	61,524	20%	12305	3076	9613	1230	308	461	1230	28,224
Charge system teaching board	set	35	139,356	20%	27871	6968	21774	2787	697	1045	2787	63,930
ignition system teaching board	set	20	90,000	20%	18000	4500	14063	1800	450	675	1800	41,288
Lights and Instruments System Teaching Board	set	20	90,000	20%	18000	4500	14063	1800	450	675	1800	41,288
Wiper system teaching board	set	20	71,478	20%	14296	3574	11168	1430	357	536	1430	32,791
Power windows central locking system teaching board	set	20	79,632	20%	15926	3982	12443	1593	398	597	1593	36,531
Door Systems Training Table	set	35	204,750	20%	40950	10238	31992	4095	1024	1536	4095	93,929
original anti-theft system teaching board	set	20	131,202	20%	26240	6560	20500	2624	656	984	2624	60,189
Airbag teaching board	set	20	126,684	20%	25337	6334	19794	2534	633	950	2534	58,116
Power seats training table	set	35	204,750	20%	40950	10238	31992	4095	1024	1536	4095	93,929
Automobile cruise system teaching board	set	20	79,632	20%	15926	3982	12443	1593	398	597	1593	36,531
navigation system teaching board	set	20	95,904	20%	19181	4795	14985	1918	480	719	1918	43,996
Reversing radar system teaching board	set	20	253,350	20%	50670	12668	39586	5067	1267	1900	5067	116,224
Drive axle assembly and disassembly	set	100	55,710	20%	11142	2786	8705	1114	279	418	1114	25,557
Steering system assembly and disassembly	set	100	69,570	20%	13914	3479	10870	1391	348	522	1391	31,915
brake assembly and disassembly	set	100	99,000	20%	19800	4950	15469	1980	495	743	1980	45,416
ABS braking system training table	set	35	408,524	20%	81705	20426	63832	8170	2043	3064	8170	187,410
Automotive automatic air-conditioning systems training table	set	35	253,355	20%	50671	12668	39587	5067	1267	1900	5067	116,226

Traditional electric hydraulic power-assisted steering system training table	set	35	300,857	20%	60171	15043	47009	6017	1504	2256	6017	138,018
electronically control power steering system training table	set	35	456,026	20%	91205	22801	71254	9121	2280	3420	9121	209,202
Power steering and independent suspension training table	set	35	186,858	20%	37372	9343	29197	3737	934	1401	3737	85,721
Mechanical clutch experimental table	set	35	85,050	20%	17010	4253	13289	1701	425	638	1701	39,017
hydraulic clutch experimental table	set	35	72,450	20%	14490	3623	11320	1449	362	543	1449	33,236
Four-wheel steering experiment table	set	35	332,703	20%	66541	16635	51985	6654	1664	2495	6654	152,628
Air Suspension training table	set	35	269,262	20%	53852	13463	42072	5385	1346	2019	5385	123,524
hydraulic braking system training table	set	35	179,550	20%	35910	8978	28055	3591	898	1347	3591	82,369
pneumatic brake system training table	set	35	202,671	20%	40534	10134	31667	4053	1013	1520	4053	92,975
ESP system training table	set	20	651,474	20%	130295	32574	101793	13029	3257	4886	13029	298,864
Flat board	set	15	9,288	20%	1858	464	1451	186	46	70	186	4,261
Bench drill	set	15	7,641	20%	1528	382	1194	153	38	57	153	3,505
Bench grinders	set	15	1,404	20%	281	70	219	28	7	11	28	644
Table vice	set	15	1,215	20%	243	61	190	24	6	9	24	557
Hit head	set	150	6,750	20%	1350	338	1055	135	34	51	135	3,097
Air line	set	15	202,500	20%	40500	10125	31641	4050	1013	1519	4050	92,897
Work clothes	set	900	121,500	20%	24300	6075	18984	2430	608	911	2430	55,738
Sheet metal tools	set	15	504,063	20%	100813	25203	78760	10081	2520	3780	10081	231,239
Painting tools	set	15	105,003	20%	21001	5250	16407	2100	525	788	2100	48,170
Spare Parts and Consumables for AUTOMOTIVE ENGINEERING LAB (Poly)	set	5	563,765	5%	28188	28188	77518	11275	2819	4228	11275	163,492
Spare Parts and Consumables for AUTOMOTIVE ENGINEERING LAB (TI)	set	10	725,139	5%	36257	36257	99707	14503	3626	5439	14503	210,290
Digital inverter manual arc welding machine	set	87	254,553	5%	12728	0	0	5091	1273	1909	0	21,001
Common inverter manual arc welding machine	set	92	126,684	5%	6334	0	0	2534	633	950	0	10,451
Far-infrared electrode dry oven	set	18	24,786	5%	1239	0	0	496	124	186	0	2,045
Table vice	set	154	12,474	20%	2495	624	1949	249	62	94	249	5,722
Training station	set	179	492,966	20%	98593	24648	77026	9859	2465	3697	9859	226,148
Specimen preparation table	set	64	132,192	20%	26438	6610	20655	2644	661	991	2644	60,643
Smoke and dust exhaust system	set	179	483,300	20%	96660	24165	75516	9666	2417	3625	9666	221,714

Flat file	set	345	3,416	20%	683	171	534	68	17	26	68	1,567
Wire brush	set	345	1,242	20%	248	62	194	25	6	9	25	570
Combined tool	set	179	14,821	20%	2964	741	2316	296	74	111	296	6,799
Hand-held welding protective mask	set	345	2,174	20%	435	109	340	43	11	16	43	997
Digital Inverter gas-shielded welding machine	set	77	583,160	5%	29158	0	0	11663	2916	4374	0	48,111
Digital inverter argon arc welding machine	set	51	166,801	5%	8340	0	0	3336	834	1251	0	13,761
Common inverter argon arc welding machine	set	51	87,807	5%	4390	0	0	1756	439	659	0	7,244
Carbon dioxide cylinders	set	230	95,013	5%	4751	0	0	1900	475	713	0	7,839
Argon gas cylinders	set	230	95,013	20%	19003	0	0	1900	475	713	0	22,091
Training station	set	179	492,966	20%	98593	24648	77026	9859	2465	3697	9859	226,148
Smoke and dust exhaust system 2	set	179	483,300	20%	96660	24165	75516	9666	2417	3625	9666	221,714
Carbon dioxide meter	set	166	11,504	20%	2301	575	1797	230	58	86	230	5,277
Argon meter	set	166	8,516	20%	1703	426	1331	170	43	64	170	3,907
Specimen preparation table	set	89	183,830	20%	36766	9191	28723	3677	919	1379	3677	84,332
Oxygen hose	set	1785	8,033	20%	1607	402	1255	161	40	60	161	3,685
Table vice	set	184	14,904	20%	2981	745	2329	298	75	112	298	6,837
Hand-held welding protective mask	set	345	2,174	10%	217	109	312	43	11	16	43	753
Helmet welding protective mask	set	345	21,425	10%	2142	1071	3080	428	107	161	428	7,418
Flat file	set	690	6,831	20%	1366	342	1067	137	34	51	137	3,134
Combination tool	set	179	14,821	20%	2964	741	2316	296	74	111	296	6,799
Inverter submerged arc welding machine	set	18	198,288	5%	9914	9914	27265	3966	991	1487	3966	57,504
Controlled flux drying oven	set	18	49,572	5%	2479	2479	6816	991	248	372	991	14,376
Inverter air plasma cutting machine	set	18	153,673	5%	7684	0	0	3073	768	1153	0	12,678
Semi-automatic flame cutting machine	set	18	9,299	5%	465	0	0	186	46	70	0	767
Automatic electric bevelling machine	set	18	115,020	5%	5751	0	0	2300	575	863	0	9,489
Pipe beveling machine	set	18	21,692	5%	1085	0	0	434	108	163	0	1,790
Abrasive wheel cutting machine	set	23	11,054	5%	553	0	0	221	55	83	0	912
Hydraulic cart	set	23	10,350	5%	518	0	0	207	52	78	0	854
Oxygen cylinder	set	115	47,507	10%	4751	2375	6829	950	238	356	950	16,449
Acetylene Cylinder	set	115	47,507	10%	4751	2375	6829	950	238	356	950	16,449
Oxygen meter	set	115	5,900	10%	590	295	848	118	29	44	118	2,043
Oxygen Torch A	set	230	11,799	10%	1180	590	1696	236	59	88	236	4,085
Oxygen Torch B	set	230	11,799	10%	1180	590	1696	236	59	88	236	4,085


Digital Ultrasonic Flow Detector	set	18	204,493	10%	20449	10225	29396	4090	1022	1534	4090	70,806
Ultrasonic test block	set	64	19,411	10%	1941	971	2790	388	97	146	388	6,721
Magnetic Flow Detector	set	23	34,838	10%	3484	1742	5008	697	174	261	697	12,063
Metallographic microscope	set	64	132,480	5%	6624	6624	18216	2650	662	994	2650	38,419
Digital Photography Metallographic microscope	set	64	348,998	5%	17450	17450	47987	6980	1745	2617	6980	101,210
Metallographic Specimen Pointing Machine	set	23	109,213	5%	5461	0	0	2184	546	819	0	9,010
Metallographic Specimen Pre-grinding Machine	set	23	29,705	5%	1485	0	0	594	149	223	0	2,451
Metallographic Specimen Polishing Machine	set	46	45,292	5%	2265	0	0	906	226	340	0	3,737
Metallographic Specimen Cutting Machine	set	23	36,411	5%	1821	0	0	728	182	273	0	3,004
Table vice	set	59	4,779	20%	956	239	747	96	24	36	96	2,192
Digital Vickers Hardness Tester	set	18	149,963	20%	29993	7498	23432	2999	750	1125	2999	68,796
Digital Brinell Hardness Tester	set	18	74,974	20%	14995	3749	11715	1499	375	562	1499	34,394
Digital B Rockwell Hardness Tester	set	18	110,419	20%	22084	5521	17253	2208	552	828	2208	50,655
Computer	set	115	100,395	5%	5020	0	0	2008	502	753	0	8,283
Digital Cameras	set	18	37,179	20%	7436	0	0	744	186	279	0	8,644
Projector	set	18	23,247	20%	4649	0	0	465	116	174	0	5,405
Flat file	set	230	2,277	20%	455	114	356	46	11	17	46	1,045
Handsaw	set	230	2,277	20%	455	114	356	46	11	17	46	1,045
Power Supply Rearrangement Equipment& Material	set	13	1,789,082	20%	357816	89454	279544	35782	8945	13418	35782	820,741
UPS	set	115	13,455	5%	673	673	1850	269	67	101	269	3,902
Protective clothing suit	set	1080	213,840	20%	42768	10692	33413	4277	1069	1604	4277	98,099
Magnetic field indicator	set	18	6,658	20%	1332	333	1040	133	33	50	133	3,054
Penetration testing block A	set	18	2,673	20%	535	134	418	53	13	20	53	1,226
Penetration testing block B	set	18	2,673	20%	535	134	418	53	13	20	53	1,226
Penetration testing block C	set	18	2,673	20%	535	134	418	53	13	20	53	1,226
Penetration testing block D	set	18	2,673	20%	535	134	418	53	13	20	53	1,226
Magnetic suspension liquid spray device	set	18	356	20%	71	18	56	7	2	3	7	163
Magnetic powder flaw detection test plate	set	54	10,886	20%	2177	544	1701	218	54	82	218	4,994
Spare Parts and Consumables for WELDING ENGINEERING LAB (Poly)	set	5	253,233	5%	12662	12662	34820	5065	1266	1899	5065	73,438
Spare Parts and Consumables for WELDING ENGINEERING LAB (TI)	set	13	574,072	5%	28704	28704	78935	11481	2870	4306	11481	166,481

Engineering drawing model (A\B)	set	10	60,651	5%	3033	3033	8340	1213	303	455	1213	17,589
Computer	set	105	91,665	5%	4583	0	0	1833	458	687	0	7,562
Total station	set	30	202,500	20%	40500	10125	31641	4050	1013	1519	4050	92,897
Automatic Level	set	80	115,200	20%	23040	5760	18000	2304	576	864	2304	52,848
Digital level	set	40	223,200	20%	44640	11160	34875	4464	1116	1674	4464	102,393
GPS	set	5	112,500	5%	5625	5625	15469	2250	563	844	2250	32,625
Floor-calibration station	set	10	51,318	5%	2566	2566	7056	1026	257	385	1026	14,882
Plotter	set	5	27,000	20%	5400	1350	4219	540	135	203	540	12,386
Cement paste mixer	set	30	95,175	5%	4759	4759	13087	1904	476	714	1904	27,601
Vicat apparatus	set	30	22,383	5%	1119	1119	3078	448	112	168	448	6,491
Cement mortar mixer	set	30	118,962	5%	5948	5948	16357	2379	595	892	2379	34,499
Cement electric bending tester	set	20	82,116	20%	16423	4106	12831	1642	411	616	1642	37,671
Le Chatelier boiling box	set	10	19,593	20%	3919	980	3061	392	98	147	392	8,988
Tester for determining expansion of Le Chatelier needles	set	30	5,400	20%	1080	270	844	108	27	41	108	2,477
Cement fineness negative pressure sieve analyzer	set	10	25,659	20%	5132	1283	4009	513	128	192	513	11,771
Cement mortar vibrating compaction table	set	10	31,725	20%	6345	1586	4957	635	159	238	635	14,554
Standard cement curing box	set	10	79,200	20%	15840	3960	12375	1584	396	594	1584	36,333
Top-hitting standard sieve shaker	set	30	104,976	20%	20995	5249	16403	2100	525	787	2100	48,158
Electronic balance (600g)	set	30	7,290	20%	1458	365	1139	146	36	55	146	3,344
Electronic balance (1,200g)	set	30	9,099	20%	1820	455	1422	182	45	68	182	4,174
Electronic balance (2,000g)	set	30	9,801	20%	1960	490	1531	196	49	74	196	4,496
Electronic scale (100kg)	set	30	9,450	20%	1890	473	1477	189	47	71	189	4,335
Concrete mixer for test	set	10	78,381	20%	15676	3919	12247	1568	392	588	1568	35,957
Vibrostand	set	10	44,325	20%	8865	2216	6926	887	222	332	887	20,334
Concrete form removing air pump gun	set	10	90	5%	5	5	12	2	0	1	2	26
Automatic flexural and compression machine	set	5	97,974	5%	4899	0	0	1959	490	735	0	8,083
Universal testing machine	set	5	373,230	5%	18662	0	0	7465	1866	2799	0	30,791
Concrete pressure testing machine	set	5	97,038	5%	4852	0	0	1941	485	728	0	8,006
Electric thermostatic drying oven	set	10	13,500	20%	2700	675	2109	270	68	101	270	6,193
Standard concrete curing box	set	10	79,200	5%	3960	3960	10890	1584	396	594	1584	22,968
Computerized automatic asphalt penetrometer	set	30	113,400	10%	11340	5670	16301	2268	567	851	2268	39,265
Asphalt softening point tester	set	30	36,396	10%	3640	1820	5232	728	182	273	728	12,602

Asphalt extension meter	set	10	167,958	10%	16796	8398	24144	3359	840	1260	3359	58,155
Test-bed	set	150	94,500	20%	18900	4725	14766	1890	473	709	1890	43,352
Standard sieve shaker	set	30	104,976	20%	20995	5249	16403	2100	525	787	2100	48,158
Soil liquid and plastic limit tester	set	30	67,176	20%	13435	3359	10496	1344	336	504	1344	30,817
Consolidometer	set	30	114,777	20%	22955	5739	17934	2296	574	861	2296	52,654
Two speed strain controlled direct shear test apparatus	set	30	106,380	20%	21276	5319	16622	2128	532	798	2128	48,802
Electric compaction device	set	5	28,670	20%	5734	1433	4480	573	143	215	573	13,152
Electric thermostatic drying oven	set	10	13,500	20%	2700	675	2109	270	68	101	270	6,193
Electronic balance 600g	set	30	7,290	20%	1458	365	1139	146	36	55	146	3,344
Strain Controlled Triaxial Test Apparatus	set	5	384,885	20%	76977	19244	60138	7698	1924	2887	7698	176,566
Autocollimator	set	25	250,763	20%	50153	12538	39182	5015	1254	1881	5015	115,037
Microscope	set	25	9,923	20%	1985	496	1550	198	50	74	198	4,552
Granite surface table(1.5m×1m)	set	25	18,000	20%	3600	900	2813	360	90	135	360	8,258
Teacher's Desk	set	105	18,900	20%	3780	945	2953	378	95	142	378	8,670
UPS	set	105	12,285	5%	614	0	0	246	61	92	0	1,014
Projector	set	5	6,458	20%	1292	0	0	129	32	48	0	1,501
Tile knife	set	500	4,050	20%	810	203	633	81	20	30	81	1,858
Mud basket	set	500	2,700	20%	540	135	422	54	14	20	54	1,239
Line fall	set	500	11,250	20%	2250	563	1758	225	56	84	225	5,161
Plug board	set	500	22,500	20%	4500	1125	3516	450	113	169	450	10,322
Benchmarking	set	500	19,350	20%	3870	968	3023	387	97	145	387	8,877
Bed joint mortar fullness measuring grid	set	500	2,925	20%	585	146	457	59	15	22	59	1,342
Mortar board	set	500	2,475	20%	495	124	387	50	12	19	50	1,135
Steel tape	set	500	7,200	5%	360	360	990	144	36	54	144	2,088
Gloves	set	600	270	20%	54	14	42	5	1	2	5	124
Shovel	set	500	4,275	10%	428	214	615	86	21	32	86	1,480
Balance	set	25	7,875	5%	394	394	1083	158	39	59	158	2,284
Soft water pipe	set	1000	1,800	20%	360	90	281	36	9	14	36	826
Sieve	set	200	6,120	20%	1224	306	956	122	31	46	122	2,808
Work clothes	set	600	81,000	20%	16200	4050	12656	1620	405	608	1620	37,159
Spare Parts and Consumables for CIVIL ENGINEERING LAB (Poly)	set	5	379,202	10%	37920	18960	54510	7584	1896	2844	7584	131,299
Diesel Generator Unit (200 KW)	set	45	2,794,500	5%	139725	0	0	55890	13973	20959	0	230,546
Spare Parts for Diesel Generator Unit	set	45	279,450	5%	13973	0	0	5589	1397	2096	0	23,055
Computer	set	10	16,470	5%	824	0	0	329	82	124	0	1,359
A4 laser printer	set	10	3,294	20%	659	0	0	66	16	25	0	766



Projector	set	1	3,294	20%	659	0	0	66	16	25	0	766
Workstation	set	5	9,882	20%	1976	0	0	198	49	74	0	2,298
UPS	set	15	2,471	5%	124	0	0	49	12	19	0	204
Air Condition	set	10	11,529	20%	2306	0	0	231	58	86	0	2,681
A3 Copier	set	2	2,635	20%	527	0	0	53	13	20	0	613
<b>TOTAL</b>			81,244,054		10725801	3077235	9291721	1624881	406220	609330	1230894	26,966,083

  
 MINISTRY OF FINANCE  
 W. O. 003 B. 2  
 A. C. P. 0