

December 5, 2016

DIVISION MEMORANDUM
No. 788, s. 2016

**GUIDELINES ON THE PROCUREMENT OF TOOLS AND EQUIPMENT FOR
SELECTED TECHNICAL-VOCATIONAL SECONDARY SCHOOLS WITH
AGRICULTURE AND FISHERY ARTS SPECIALIZATION FOR
SCHOOL YEAR 2016 - 2017**

TO : Assistant Superintendents
Chief Education Program Supervisors
Education Program Supervisors/Coordinators
District Supervisors/OICs
Public Senior High School Heads
Other Concerns

- 1 Attached is DepEd Order No. 73, s. 2016, entitled, **GUIDELINES ON THE PROCUREMENT OF TOOLS AND EQUIPMENT FOR SELECTED TECHNICAL-VOCATIONAL SECONDARY SCHOOLS WITH AGRICULTURE AND FISHERY ARTS SPECIALIZATION FOR SCHOOL YEAR 2016 – 2017**, for your reference and guidance.
- 2 There are two (2) recipient schools in the Division namely: Badian National High School and Patao National High School. School Heads of the said schools are enjoined to study the attached guidelines and follow strictly the provisions provided thereat.
- 3 Immediate and wide dissemination of this Memorandum is directed.


RHEA MARIA ANGTUD, Ed. D., CESO VI
Schools Division Superintendent

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Republic of the Philippines
Department of Education

02 DEC 2016

DepEd O R D E R
No. **73**, s. 2016

**GUIDELINES ON THE PROCUREMENT OF TOOLS AND EQUIPMENT FOR SELECTED
TECHNICAL-VOCATIONAL SECONDARY SCHOOLS WITH AGRICULTURE AND FISHERY
ARTS SPECIALIZATIONS FOR THE SCHOOL YEAR 2016-2017**

To: Regional Directors (except NCR)
Schools Division Superintendents
All Others Concerned

1. The Department of Education (DepEd) issues the following **Guidelines on the Procurement of Tools and Equipment for Selected Technical-Vocational (TechVoc) Secondary Schools with Agriculture and Fishery Arts Specializations for the School Year (SY) 2016-2017** to ensure proper implementation and to adhere to the principles of transparency, accountability, efficiency, and economy in its procurement process:

- a. All procurement should be within the approved budget of the procuring entity based on the regional allocations specified in the 2015 General Appropriations Act (GAA), under the Estimated Budget Allocation per School, per Region for Tools and Equipment Provision contained in Enclosure No. 1. However, no government procurement shall be undertaken unless it is in accordance with an approved Annual Procurement Plan as per Republic Act (RA) No. 9184 otherwise known as the *Government Procurement Reform Act*. The total value of items to be procured must not exceed the amount allotted for the entire region in the 2015 GAA. Therefore, the regions will need to prioritize the necessary tools and equipment to be procured.
- b. As a general rule, all procurement shall be done through competitive bidding, as provided in Rule XVI of the Implementing Rules and Regulations (IRR) of RA 9184. Rule XVI outlines the conditions under which the use of alternative methods of procurement may be resorted to.
- c. The concerned regions, except for the National Capital Region (NCR), shall consult with their Technical-Vocational and Livelihood (TVL)/Technology and Livelihood Education (TLE) coordinators and the schools divisions concerned regarding the specific requirements of the identified schools per specialization, including details such as quantity per item and points of delivery.
- d. The technical specifications of goods for procurement shall be guided by the standards set by the Office of the Undersecretary for Curriculum and Instruction particularly the Specifications of Tools and Equipment by Specialization contained in Enclosure No. 2.
- e. The approved budget for the contract for the procurement of goods should include incidental expenses such as delivery, training, and installation as may be appropriate, inclusive of applicable taxes.

- f. To ensure successful bidding, the Regional Bids and Awards Committees (BACs) should consider the list of items to be procured. Contract packages should therefore be evaluated and awarded by lot, per package, or per item.
 - g. The procurement process from the opening of bids up to the awarding of contract shall not exceed three months, or a shorter period to be determined by the Procuring Entity (PE) concerned. All members of the BAC shall be on a *jury duty* type of assignment until the Notice to Award (NOA) is issued by the Head of the PE (HOPE) in order to complete the entire procurement process at the earliest possible time. The BAC members shall give outmost priority to BAC assignment over all the other duties and responsibilities until the requirements for the said assignments at hand are completed.
 - h. To ensure that the Contract or Purchase Order (PO) are prepared and approved within the prescribed timelines of RA 9184, the regions are responsible for the following undertakings:
 - i. The BAC, through its Secretariat, prepares and submits the Complete Staff Work together with the approved Resolution to Award (RTA) to the Office of Undersecretary for Finance for the release of Sub-ARO prior to the issuance of NOA;
 - ii. The amounts specified in the RTA shall be the basis of Central Office to download funds to the Region so that it can proceed with the issuance of the NOA; and
 - iii. The preparation of Contract or PO will be subject for review by the legal officer, if any, to advice whether or not the provisions in the Contract or PO is in compliance with existing laws and regulations.
2. The regions, together with its schools division offices and concerned recipient schools, are encouraged to explore other modes of acquiring the other necessary tools and equipment as may be allowed by law. These include, among others, partnering with local government units, private institutions, and other stakeholders.
3. For more information, all concerned may contact **Ms. Ruth Romano** of the Procurement Management Service (PMS), Department of Education Central Office (DepEd CO) at telefax nos. (02) 636-5642 to 43 or (02) 635-3762. Queries related to TVL specialization requirements and allocations may be referred to **Jocelyn DR Andaya**, Director IV, Bureau of Curriculum Development (BCD), DepEd CO, DepEd Complex, Meralco Avenue, Pasig City at telephone no. (02) 632-0170.
4. Immediate dissemination of and strict compliance with this Order is directed.


LEONOR MAGTOLIS BRIONES
Secretary

Encl.:

As stated

Reference:

DepEd Order No. 8, s. 2016

To be indicated in the Perpetual Index
under the following subjects:

AGRICULTURAL EDUCATION
FUNDS
OFFICIALS
POLICY
PROCUREMENT
SCHOOLS
TECHNICAL EDUCATION
VOCATIONAL EDUCATION

Lem: DO Guidelines on the Procurement of Tools and Equipment TechVoc Agri and Fishery Arts SY 2016-2017
0809-Oct 27/Oct 28/Nov 2, 2016

ESTIMATED BUDGET ALLOCATION PER SCHOOL FOR TOOLS AND EQUIPMENT PROVISION

Region/Division	School ID	School Name	Estimated Budget Allocation				
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture	
Region 1			400,000.00	200,000.00	4,600,000.00	300,000.00	5,500,000.00
1 Ilocos Norte	300006	Burgos Agro-Industrial School	-	100,000.00	1,150,000.00	-	1,250,000.00
2 Ilocos Norte	300018	Ilocos Norte Agricultural College	-	-	1,150,000.00	-	1,150,000.00
3 Pangasinan I	300175	Bolinao SOF	-	-	-	100,000.00	100,000.00
4 Pangasinan I	300232	Binmaley SOF (Pangasinan COF)	-	-	-	100,000.00	100,000.00
5 Pangasinan II	300309	Eastern Pangasinan Agricultural College	-	100,000.00	1,150,000.00	-	1,250,000.00
6 Laoag City	300375	Ilocos Norte Regional School of Fisheries	-	-	-	100,000.00	100,000.00
7 San Carlos City	300388	Speaker Eugenio Perez Nat'l. Agr'l. Sch.	400,000.00	-	1,150,000.00	-	1,550,000.00
Region 2			1,600,000.00	1,200,000.00	14,950,000.00	500,000.00	18,250,000.00
1 Batanes	300414	Itbayat National Agricultural HS	400,000.00	100,000.00	-	-	500,000.00
2 Cagayan	300418	Abulug NRVHS	-	100,000.00	1,150,000.00	-	1,250,000.00
3 Cagayan	300419	Abulug SOF	-	-	-	100,000.00	100,000.00
4 Cagayan	300421	Alcala Rural School	-	100,000.00	1,150,000.00	-	1,250,000.00
5 Cagayan	300429	Baggao NAS	400,000.00	100,000.00	-	-	500,000.00
6 Cagayan	300437	Bukig National Agr'l. and Tech. School	-	100,000.00	1,150,000.00	-	1,250,000.00
7 Cagayan	300450	Claveria RVS	400,000.00	100,000.00	-	-	500,000.00
8 Cagayan	300460	Felipe Tuzon Agr'l. School	-	-	1,150,000.00	-	1,150,000.00
9 Cagayan	300466	Itawes Nat'l. Agr'l. & Tech'l. School	400,000.00	100,000.00	-	-	500,000.00
10 Cagayan	300479	Pamplona National School of Fisheries	-	100,000.00	-	100,000.00	200,000.00
11 Cagayan	300487	Solana Fresh Water Fishery School	-	100,000.00	1,150,000.00	100,000.00	1,350,000.00
12 Cagayan	300488	Sta. Ana Fishery National High School	-	-	1,150,000.00	100,000.00	1,250,000.00
13 Isabela	300499	Alicia Vocational School	-	-	1,150,000.00	-	1,150,000.00
14 Isabela	300537	Gamu Rural School-Main	-	100,000.00	1,150,000.00	-	1,250,000.00
15 Isabela	300554	Isabela School of Fisheries	-	-	1,150,000.00	100,000.00	1,250,000.00
16 Isabela	300555	Jones Rural School - Main	-	100,000.00	1,150,000.00	-	1,250,000.00
17 Isabela	300590	San Guillermo Vocational & Industrial High School	-	-	1,150,000.00	-	1,150,000.00
18 Isabela	300596	San Mateo Vocational and Industrial High School	-	-	1,150,000.00	-	1,150,000.00
19 Nueva Vizcaya	300631	Kasibu National Agricultural School	-	100,000.00	1,150,000.00	-	1,250,000.00
Region 3			2,800,000.00	700,000.00	9,200,000.00	500,000.00	13,200,000.00
1 Aurora	300691	Maria Aurora NHS	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
2 Aurora	300680	Casiguran National High School	400,000.00	-	-	100,000.00	500,000.00
3 Bataan	300703	Bataan School of Fisheries	-	-	-	100,000.00	100,000.00
4 Bulacan	300721	Balagtas National Agricultural HS	400,000.00	100,000.00	-	-	500,000.00
5 Bulacan	300732	San Ildefonso National High School	-	100,000.00	-	-	100,000.00

Region/Division	School ID	School Name	Estimated Budget Allocation					
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture		
6	Bulacan	300739	F. F. Halili Nat'l. Agr'l. School	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
7	Bulacan	300742	Guiguinto Nat'l Voc'l. High School	-	-	1,150,000.00	-	1,150,000.00
8	Bulacan	300764	Obando School of Fisheries	-	-	-	100,000.00	100,000.00
9	Bulacan	300778	Sullivan National High School	-	100,000.00	-	-	100,000.00
10	Malolos City	300750	Malolos Marine Fishery School & Laboratory	-	100,000.00	-	100,000.00	200,000.00
11	Nueva Ecija	300805	Gabalton Voc'l. Agric. HS	400,000.00	-	1,150,000.00	-	1,550,000.00
12	Nueva Ecija	300811	Ricardo Dizon Canlas Agriculture School	400,000.00	-	1,150,000.00	-	1,550,000.00
13	Nueva Ecija	300864	Talavera National High School	-	-	1,150,000.00	-	1,150,000.00
14	Pampanga	300890	Floridablanca Nat'l. Agr'l. School	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
15	San Fernando City	301064	Pampanga National High School	-	-	1,150,000.00	-	1,150,000.00
16	Zambales	301011	Candelaria School of Fisheries	-	-	-	100,000.00	100,000.00
Region 4A				1,200,000.00	100,000.00	5,750,000.00	200,000.00	7,250,000.00
1	Batangas	301079	Bauan National Agricultural and Vocational High School	400,000.00	-	-	-	400,000.00
2	Tanauan City	301154	Tanauan School of Fisheries	-	-	-	100,000.00	100,000.00
3	Laguna	301273	Siniloan National High School	400,000.00	-	1,150,000.00	-	1,550,000.00
4	Quezon	301295	Bondoc Peninsula Agri. HS	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
5	Quezon	301340	Lamon Bay SOF - Main Gumaca	-	-	-	100,000.00	100,000.00
6	Cavite	301222	Trece Martires City National High School	-	-	1,150,000.00	-	1,150,000.00
7	Lucena City	308505	Lucena City National High School (Mayao Parada Extension)	-	-	1,150,000.00	-	1,150,000.00
8	Antipolo City	301421	Antipolo City National High School (Kaysakat Extension)	-	-	1,150,000.00	-	1,150,000.00
Region 4B				800,000.00	200,000.00	3,450,000.00	300,000.00	4,750,000.00
1	Occidental Mindoro	301583	Looc National School Of Fisheries	-	-	-	100,000.00	100,000.00
2	Occidental Mindoro	308901	San Jose National Agricultural and Industrial High School	400,000.00	100,000.00	-	-	500,000.00
3	Oriental Mindoro	301629	Matulatula High School	-	-	1,150,000.00	-	1,150,000.00
4	Palawan	301719	Panitian National High School	-	-	1,150,000.00	-	1,150,000.00
5	Palawan	301731	Roxas National Comprehensive High School	-	-	1,150,000.00	-	1,150,000.00
6	Puerto Princesa City	301783	Irawan National High School	-	-	-	100,000.00	100,000.00
7	Palawan	301724	Princess Urduja National High School	400,000.00	-	-	-	100,000.00
8	Romblon	301772	San Jose Agricultural HS	-	100,000.00	-	-	100,000.00
9	Romblon	301761	Ferrol National High School	-	-	-	100,000.00	100,000.00
Region 5				2,800,000.00	600,000.00	5,750,000.00	600,000.00	9,750,000.00
1	Albay	301833	Libon Agro-Industrial High School	-	100,000.00	1,150,000.00	-	1,250,000.00
2	Albay	301880	Tiwi Agro-Industrial School	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
3	Albay	301848	Maramba National High School	-	-	-	100,000.00	100,000.00
4	Camarines Norte	301905	Mercedes HS	-	-	-	100,000.00	100,000.00
5	Camarines Sur	301943	Bikal Fisheries School	-	-	-	100,000.00	100,000.00

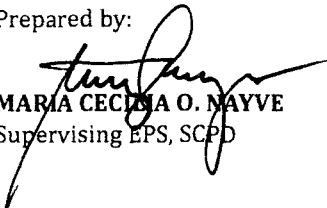
Region/Division	School ID	School Name	Estimated Budget Allocation					
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture		
6	Camarines Sur	302015	Partido Agro-Industrial NHS	400,000.00	100,000.00	-	-	500,000.00
7	Camarines Sur	302020	Ragay National Agricultural and Fisheries School (RNAFS)	400,000.00	100,000.00	1,150,000.00	100,000.00	1,750,000.00
8	Catanduanes	302082	Caramoran School of Fisheries	400,000.00	-	-	100,000.00	500,000.00
9	Masbate	302126	Tito R. Espinosa Memorial National Agricultural School	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
10	Masbate	302147	Masbate School of Fisheries	400,000.00	-	-	100,000.00	500,000.00
11	Masbate	309904	Palanas National Agriculture High School	400,000.00	-	-	-	400,000.00
12	Naga City	302264	Camarines Sur National High School	-	100,000.00	1,150,000.00	-	1,250,000.00
Region 6				1,200,000.00	500,000.00	11,500,000.00	200,000.00	13,400,000.00
1	Aklan	302310	Libacao National Forestry Vocational High School	-	100,000.00	1,150,000.00	-	1,250,000.00
2	Aklan	302319	Malinao Sch. For Phil. Craftsmen	-	100,000.00	1,150,000.00	-	1,250,000.00
3	Aklan	302327	Numancia National Sch. Of Fisheries	-	-	-	100,000.00	100,000.00
4	Antique	302342	Antique Vocational School	-	100,000.00	1,150,000.00	-	1,250,000.00
5	Antique	302367	Northern Antique Vocational School	-	-	1,150,000.00	-	1,150,000.00
6	Antique	310704	Gen. Leandro Fullon NS	-	-	1,150,000.00	-	1,150,000.00
7	Iloilo	302473	Cabatuan NCHS	-	100,000.00	1,150,000.00	-	1,250,000.00
8	Iloilo	302490	Dingle NHS	-	-	1,150,000.00	-	1,150,000.00
9	Iloilo	302497	Duenas GCHS	400,000.00	-	-	-	400,000.00
10	Iloilo	302566	San Joaquin School of Fisheries	400,000.00	-	-	100,000.00	500,000.00
11	Capiz	310806	Dumalag Central NHS	-	100,000.00	-	-	100,000.00
12	Iloilo	302472	Cabalic National High School	-	-	1,150,000.00	-	1,150,000.00
13	Iloilo	302494	Don Casimero Andrada National HS	-	-	1,150,000.00	-	1,150,000.00
14	Iloilo	311021	Tacuyong Sur National High School	-	-	1,150,000.00	-	1,150,000.00
15	Iloilo	302550	Pavia National High School	400,000.00	-	-	-	400,000.00
Negros Island Region				400,000.00	100,000.00	-	100,000.00	600,000.00
16	Negros Occidental	302652	Inocencio V. Ferrer SOF (TASOF) (under the Reg'l Office)	-	-	-	100,000.00	100,000.00
17	Negros Occidental	302668	Negros Occ. NAISHI (under the Reg'l Office)	400,000.00	100,000.00	-	-	500,000.00
Region 7				400,000.00	500,000.00	6,900,000.00	200,000.00	8,000,000.00
1	Bohol	302809	Alicia Technical-Voc'l HS	-	100,000.00	1,150,000.00	-	1,250,000.00
2	Bohol	302824	Mayor A. R. Tuazon Nat'l Sch. of Fisheries	-	-	-	100,000.00	100,000.00
3	Bohol	302899	San Pascual National Agr'l HS	-	100,000.00	1,150,000.00	-	1,250,000.00
4	Bohol	302877	Mantacida National High School	-	-	1,150,000.00	-	1,150,000.00
5	Bohol	302889	San Isidro Techvoc High School	-	100,000.00	-	100,000.00	200,000.00
6	Cebu	312409	Patao National High School	-	-	1,150,000.00	-	1,150,000.00
7	Cebu	302921	Badian National High School	400,000.00	-	-	-	400,000.00
8	Guihulngan City	303230	Guihulngan National Agricultural School	-	100,000.00	1,150,000.00	-	1,250,000.00
9	Siquijor	303306	DepED-Lazi National Agricultural School	-	100,000.00	1,150,000.00	-	1,250,000.00
Region 8				4,000,000.00	1,500,000.00	16,100,000.00	900,000.00	22,500,000.00

Region/Division	School ID	School Name	Estimated Budget Allocation				
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture	
1 Biliran	303320	Biliran NAHS	400,000.00	100,000.00		-	500,000.00
2 Biliran	303324	Culaba NVS		-	1,150,000.00	-	1,150,000.00
3 Biliran	303331	Naval School of Fisheries	400,000.00	-	-	100,000.00	500,000.00
4 Calbayog City	303649	R. Lentejas Mem. School Of Fisheries	-	-	-	100,000.00	100,000.00
5 Leyte	303347	Bato School of Fisheries	-	-	-	100,000.00	100,000.00
6 Leyte	303358	Calubian National High School (Calubian Nat'l. Voc'l. School)	-	100,000.00	1,150,000.00	-	1,250,000.00
7 Leyte	303362	Carigara National Vocational School	-	-	1,150,000.00	100,000.00	1,250,000.00
8 Leyte	303368	Dr. Geronimo B. Zaldivar Memorial School of Fisheries	-	-	-	100,000.00	100,000.00
9 Leyte	303387	Leyte Agro-Industrial School	400,000.00	100,000.00		-	500,000.00
10 Leyte	303391	Daniel Z. Romualdez State Comprehensive School of Fisheries	-	-	-	100,000.00	100,000.00
11 Eastern Samar	303501	Gen. MacArthur National Agricultural School	-	100,000.00	1,150,000.00	-	1,250,000.00
12 Eastern Samar	303516	Matarinao School of Fisheries	-	-	-	100,000.00	100,000.00
13 Eastern Samar	313502	Southern Samar National Comprehensive High School	400,000.00	100,000.00		-	500,000.00
14 Eastern Samar	313506	Oras National Agro-Industrial School	-	-	1,150,000.00	-	1,150,000.00
15 Eastern Samar	313509	Salcedo Vocational High School	-	-	1,150,000.00	-	1,150,000.00
16 Eastern Samar	303523	Samar National Pilot Opportunity School of Agriculture	400,000.00	100,000.00		-	500,000.00
17 Northern Samar	303540	Capul Agro-Industrial School	-	100,000.00	1,150,000.00	-	1,250,000.00
18 Northern Samar	303544	Catubig Valley NHS	400,000.00	100,000.00	-	-	500,000.00
19 Northern Samar	303548	Eladio T. Balite Memorial School of Fisheries	-	-	-	100,000.00	100,000.00
20 Northern Samar	303559	Lorenzo S. Menzon AIS	-	-	1,150,000.00	-	1,150,000.00
21 Northern Samar	303561	Basilio B. Chan Mem. Agricultural and Industrial Sch.	400,000.00	100,000.00		-	500,000.00
22 Northern Samar	303564	Mapanas Agro-Industrial High School	400,000.00	100,000.00	-	-	500,000.00
23 Northern Samar	303566	Mondragon Agro-Ind'L HS	-	100,000.00	1,150,000.00	-	1,250,000.00
24 Northern Samar	303575	San Antonio Agricultural & Vocational Sch.	-	100,000.00		-	100,000.00
25 Northern Samar	303577	San Isidro Agro-Industrial High School	-	-	1,150,000.00	-	1,150,000.00
26 Northern Samar	303583	Silvino Lubos Vocational High School	-	-	1,150,000.00	-	1,150,000.00
27 Northern Samar	303584	Sumuroy Agro-Industrial School	-	-	1,150,000.00	-	1,150,000.00
28 Samar (Western Samar)	303599	Clarence Calagos Mem SOF	-	-	-	100,000.00	100,000.00
29 Samar (Western Samar)	303637	Valeriano C. Yancha Memorial Agricultural School	-	-	1,150,000.00	-	1,150,000.00
30 Samar (Western Samar)	303640	Quintin Quijano Sr. Agricultural School	-	100,000.00	1,150,000.00	-	1,250,000.00
31 Southern Leyte	313403	Bontoc National High School	400,000.00	100,000.00			500,000.00

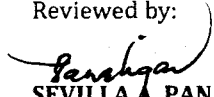
Region/Division	School ID	School Name	Estimated Budget Allocation				
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture	
32 Tacloban City	303669	Tacloban National Agricultural School	400,000.00	100,000.00	-	-	500,000.00
Region 9			1,600,000.00	500,000.00	1,150,000.00	200,000.00	3,450,000.00
1 Dipolog City	303885	Alberto Q. Ubay Mem. Agro-Tech'l. Sci. HS	400,000.00	-	-	100,000.00	500,000.00
2 Dipolog City	303890	Pamansalan Eco. Tech. HS	400,000.00	-	-	-	400,000.00
3 Pagadian City	303908	Pagadian City National High School		100,000.00			100,000.00
4 Zamboanga del Norte	303703	Kipit Agro-Fishery NHS	-	100,000.00		100,000.00	200,000.00
5 Zamboanga del Norte	303738	Sindangan National Agricultural School			1,150,000.00		1,150,000.00
6 Zamboanga del Sur	303808	Rebokon AVHS	400,000.00	100,000.00		-	500,000.00
7 Zamboanga del Sur	303818	Subananen Agri. NHS	400,000.00	100,000.00		-	500,000.00
8 Zamboanga Sibugay	303836	Guintolan National High School		100,000.00			100,000.00
Region 10			400,000.00	100,000.00	3,450,000.00	300,000.00	4,250,000.00
1 Bukidnon	303951	Bukidnon NSHI	400,000.00		1,150,000.00	-	1,550,000.00
2 Iligan City	304140	Bunawan Agri. HS	-	100,000.00	1,150,000.00	-	1,250,000.00
3 Iligan City	304150	Iligan City NSOF	-	-	-	100,000.00	100,000.00
4 Misamis Occidental	304025	Baliangao SOF	-	-	-	100,000.00	100,000.00
5 Misamis Oriental	304094	Opol NSTS	-	-	1,150,000.00	100,000.00	1,250,000.00
Region 11			1,200,000.00	-	6,900,000.00	100,000.00	8,200,000.00
1 Davao City	304381	Marilog High School of Agriculture (Tech-Voc School)	400,000.00	-	-	-	400,000.00
2 Davao City	304342	Ma. Cristina P. Belcar Agricultural High School	400,000.00	-	-	-	400,000.00
3 Davao del Norte	304217	Asuncion National High School	-		1,150,000.00	-	1,150,000.00
4 Davao del Sur	304270	Davao Del Sur SOF	-	-	-	100,000.00	100,000.00
5 Davao del Sur	304298	Tacul Agrc'L VHS (Tacul NHS)	-		1,150,000.00	-	1,150,000.00
6 Digos City	316302	Digos City National High School (Mati HS Annex)	400,000.00	-	-	-	400,000.00
7 Mati City	304320	Bagumbayan Agro-Ind. HS	-		1,150,000.00	-	1,150,000.00
8 Mati City	304323	Macangao Agri. VHS	-	-	1,150,000.00	-	1,150,000.00
9 Mati City	304336	Sigaboy Agri. Voc. HS	-		1,150,000.00	-	1,150,000.00
10 Mati City	304338	Taguibo Agri. Voc. High School	-		1,150,000.00	-	1,150,000.00
Region 12			400,000.00	300,000.00	4,600,000.00	200,000.00	5,500,000.00
1 General Santos City	304639	Bula National School of Fisheries	-	-	-	100,000.00	100,000.00
2 North Cotabato	304447	Lumayong High School			1,150,000.00		1,150,000.00
3 North Cotabato	304480	M'lang National High School			1,150,000.00		1,150,000.00
4 North Cotabato	316520	Pigcawayan NHS (Libungan Torreta Annex)		100,000.00			100,000.00
5 Sarangani	304534	Malalag National High School	400,000.00	100,000.00	-	-	500,000.00
6 Sarangani	304526	Kawas National High School				100,000.00	100,000.00
7 South Cotabato	304545	Nicolas Barreras National High School			1,150,000.00		1,150,000.00
8 Sultan Kudarat	304606	Lutayan National High School			1,150,000.00		1,150,000.00
9 South Cotabato	304550	Lake Sebu National High School		100,000.00			100,000.00
CARAGA			400,000.00	400,000.00	5,750,000.00	400,000.00	6,950,000.00

Region/Division	School ID	School Name	Estimated Budget Allocation				
			Agricultural Crop Production	Animal Production	Horticulture	Aquaculture	
1 Butuan City	304757	Agusan Pequeno NHS		100,000.00	1,150,000.00	100,000.00	1,350,000.00
2 Dinagat Island	304822	Dinagat School of Fisheries	-	-	-	100,000.00	100,000.00
3 Surigao del Norte	304813	Bacuag Nat'L Agro-Indust'L Sch.	-	100,000.00	1,150,000.00	-	1,250,000.00
4 Surigao del Norte	304826	Gigaquit Nat'l. Sch. of Home Industries	-	-	1,150,000.00	100,000.00	1,250,000.00
5 Surigao del Sur	304861	Barobo National High School	-	100,000.00	1,150,000.00	-	1,250,000.00
6 Surigao del Sur	304875	Carmen National Agricultural High School	400,000.00	100,000.00	1,150,000.00	-	1,650,000.00
7 Surigao del Sur	304915	St. Christine National High School	-	-	-	100,000.00	100,000.00
CAR			2,000,000.00	300,000.00	3,450,000.00	-	5,750,000.00
1 Abra	305090	Mataragan NAS	-	-	1,150,000.00	-	1,150,000.00
2 Abra	305093	Pilar Rural High School	400,000.00	100,000.00	-	-	500,000.00
3 Apayao	305106	Apayao National Industrial Agricultural High School	400,000.00	100,000.00	-	-	500,000.00
4 Benguet	305143	Gov. Bado Dangwa Agro-Industrial School	-	-	1,150,000.00	-	1,150,000.00
5 Benguet	305162	Tublay School of Home Industries-Main	400,000.00	-	-	-	400,000.00
6 Kalinga	305199	Balbalan Agricultural and Industrial HighSchool	-	100,000.00	1,150,000.00	-	1,250,000.00
7 Mt. Province	305230	Bacarri National Trade & Agricultural School	400,000.00	-	-	-	400,000.00
8 Tabuk City	305212	Nambaran Agro-Industrial National High School	400,000.00	-	-	-	400,000.00
176 schools		GRAND TOTAL	21,600,000.00	7,200,000.00	103,500,000.00	5,000,000.00	137,000,000.00


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TECHNICAL SPECIFICATIONS

ANIMAL PRODUCTION (CHICKEN)

Item Name	Item Classification	Item Quantity	Unit Raw	Description
1 Electric lamp	Equipment	3	Units	Product Dimensions: L 2.36" x W3.8" x H 7.3"(minimum) ; Wattage: 100w ; Bulb Type: Incandescent ; Color temperature: cool white ; Bulb Features: Dimmable ; Application: Indoor use
2 Debeaker	Equipment	1	Units	1) Casing material : steel plate ; 2) Body Dimension : ; Length=13 cm(minimum) ; Width=20 cm(minimum) ; Height=22.cm(minimum) ; 3) Rated Voltage:220VAC/60Hz ; 4). Equipped with beak trimmer plate with 3 holes, 4mm., 4.37 mm and 4.75 mm. ; 5) Comes with power cord with molded male plug and users manual in english
3 Knapsack sprayer	Equipment	1	Units	1) Material: Stainless Steel ; 2) Dimensions : ; Height=18"(minimum) ; Width=12 1/2"(minimum) ; 3) Capacity: 4 gallons ; 4) Working pressure: 1 to 2.5Mpa ; 5) Comes with complete accessories including the adjustable nozzle, rubber ; hose, strainer, connectors, control valve, pumping lever and shoulder straps. ; 6) Comes with user's manual in english
4 Egg grader (Single Egg weighing scale)	Equipment	3	Units	1) Body Material: mild steel plate ; 2) Dimensions : Length=3"(minimum) ; Width= 7.8"(minimum) ; Height=9.8"(minimum) ; 3.)Weighs egg sizes: Peewee through X-Large eggs in both grams and ounces. ; 4) Maximum 30 ounces/71 grams ; 5) Sturdy scale, weighs eggs and classifies as small, medium, large or extra-large ; 6) Comes with user's manual in english
5 Portable heater	Equipment	1	Units	1) Housing material: mild steel plate ; 2) Dimensions : ; Length= 9"(minimum) ; Width= 9" (minimum) ; Height=8 1/2"(minimum) ; 3) 2 heat settings : 750 W and 1500 W ; 4)Rated Voltage:220VAC/60Hz. ; 5) Comes with internal heat limiting thermostat helps regulates heat automatically. ; 6)Equipped with a thermal cut-off safety device and fan blower ; 7) Comes with user's manual in english
6 Plastic Feeder	Equipment	15	Units	1) Material:Hard plastic,Food grade ; 2) Bucket capacity: ; 5kgs=5pcs.(height 29cm) ; 8kgs=5 pcs. (height 38cm) ; 10kgs.=5pcs.(height 45cm) ; 3) Color:any ; 4)The plastic and plate are easy to dismantle
7 Claw hammer	Equipment	5	Units	1) Material: Forged and Hardened steel head ; 2) Hardwood Handle ; 3) Over-all Length: 293 mm(minimum) ; 4) Head Height: 102.8 mm(miñimum) ; 5) Head Diameter: 26.5 mm(minimum) ; 6) Width of Claw: 21.5 mm(minimum) ; 7) Capacity: 8 oz. ; 8) Comes with octagonal neck
8 Shovel	Equipment	5	Units	1) Blade material: high carbon steel plate, 2mm thick ; 2) Handle material = hardwood ; 3) Width blade= 8 1/2"(minimum) ; 4) Handle length = 29"(minimum) ; 5) Total length=40"(minimum) ; 6) Type:Round nose shovel
9 Wheel barrow	Equipment	2	Units	1) Pan Dimension: ; Length=80 cm ; Width=61 cm ; Height=24 cm ; 2) Body material:metal,2mm thick. ; 3) Wheel diameter:12" (rubberized with metal rim) ; 4) Load Capacity:130kgs. ; 5) With plastic grips on the handle end for non-slip.
10 Waterer	Tools	13	Units	1. Material: plastic ; 2) Quantity:6 liters-5pcs; 3liters-10pcs ; 3. type: semi-circular, circular feeder and drinker, trough, nipple drinker ; 4. Feature: consist of drinker, small three direct links , Cleanable, washable, durable and long using life.

Source: DepEd TVL /Techvoc Tools & Equipment Database

ANIMAL PRODUCTION (CHICKEN)

Item Name	Item Classification	Item Quantity	Unit Raw	Description
11 Feeding trough	Tools	13	Units	1) Material: Steel plate ; 2) Dimensions: ; Length=46cm(minimum) ; Width= 36cm(minimum); Height= 21 cm(minimum) ; 3) Thick=2mm ; 4) Capacity:20 litres(minimum)
12 Generator set	Equipment	1	Units	1) Dimensions: ; Length=46 cm(minimum) ; Width=37cm(minimum) ; Height=38cm(minimum) ; 2) Rated A.C.output:2.5KVA ; 3) Rated voltage: 220Volts ; 4) Fuel Tank Capacity: 12 liters ; 5) Fuel:Gasoline /Diesel ; 6) Starting system: recoil or electric start ; 7) Operating noise level (at 7m): 65dB(A) ; 8) Comes with english users manual
13 Weighing scale (10kg cap)	Equipment	1	Units	Weighing Scale, 10 kg. Capacity, Top-loading type; ; Displays weight in grams/kilograms ; Includes a removable stainless steel bowl/pan. ; Color: Any color ; Mechanism Type: Spring Lever ; Measurement units: Grams/Kilograms ; Display Type: Round Dial ; dial diameter: not less than 16.5 cm ; Graduation Increments: 50 g ; Metal Body ; Manual Setting on Zero ; Comes with users manual in english
14 Feed bin	Equipment	1	Units	1) Material: mild Steel plate,1.5mm (thickness) ; 2) Dimensions: ; Length=46cm. (minimum) ; Width= 120cm (minimum) ; Height (at front)= 76cm (minimum) ; Height (at the back)= 116cm (minimum) ; 3)The cover equipped with handle and hinges for easy clousure. ; 4)Comes with 12.5cm. swivel type caster wheel mounted, front wheels are lockable ; 5) Color:any color ; 6) All edges are smooth surface
15 Feed cart	Equipment	1	Units	1) Material: Hard Plastic body ; 2) Overall lenght : 59" ; 3) Overall width: 26" ; 4) Overall height: 41" ; 5)Comes with hard rubber wheel mounted;front wheels are swivel type ; rear wheels are non-swivel type. ; 6) Cart has steel base for wheel mounting.
16 Infrared gas brooder	Equipment	1	Units	1) Body Material: mild Steel Plate, 1mm thick ; 2) Dimensions: ; Length=320mm(minimum) ; Width= 270mm (minimum) ; Thick= 130mm(minimum) ; 3) Comes with 190mm x 165mm ceramic plate ; 4) Heat output :2.456 kw/hr. ; 5) Equipped with electric pulse igniter ; 6) Can supply warm for 25 sq. M(600-800 chicks) ; 7) Comes with english users manual
17 Power Sprayer	Equipment	1	Units	1) Dimensions: ; Overall length =31.5 cm(minimum) ; Overall width= 30 cm(minimum) ; Overall height=27.5 cm(minimum) ; 2) Motor capacity:550W ; 3) Rated voltage: 220VAC/60Hz. ; 4)Working pressure: 5-30 kgf/cm2 ; 5) Spray Volume: 3-8 liters/min ; 6) Suction capacity: 10 liters/min ; 7) Comes with spray gun and rubber hose 30 meters in length ; with steel hose reel. ; 8) With safety valve to ensure safe working and the pressure can be regulated. ; 9) Comes with English user's manual ; 10) Must be branded

Source: DepEd IVL/ Techvoc Tools x Equipment Database

TECHNICAL SPECIFICATIONS

HORTICULTURE

Item Name	Item Classification	Item Quantity	Unit Raw	Description
1 Budding Knife	Tools	5	Set	B.) Budding Knife;Material: Stainless Steel;Overall Length: 17.3 cm;Blade Length: 6.3 cm;With a folding brass bark lifter;Hard plastic handle
2 Bolos - For Cutting	Tools	5	Units	Sharp Bolo for Cutting;Material: Forged Steel, high Carbon;Overall length: 17 to 17 1/2";Blade length: 12 to 12 1/2";Thickness:3/16" (minimum);Width: 2 1/4" widest (minimum); 1 3/4" narrowest (minimum);Full Tang;With handle;Comes with Sheath
3 Bolos - For Weeding	Tools	5	Units	Bolo for Weeding;Flat end;Material: Forged Steel, high Carbon;Length: 6 to 6 1/2";Width: 3 to 3 1/2";Wooden handle
4 Bolos - For Underbushing	Tools	5	Units	Sharp Bolo for Underbushing;Material: Forged Steel, high Carbon;Fork, Flat end;Length: 18 to 20 ";Width: 3 to 4 ";Wooden Handle
5 Container	Tools	5	Units	1) Material : PP;2) External Dimensions: 600 x 400 x 355 mm;3) Internal Dimensions: 550 x 380 x 345 mm;4) Inside Bottom Dimensions : 505 x 325 x 330 mm;5) Volume : 62 L;6) Load Capacity: 30 kg. ;The material used must be non-toxic
6 Hedge Shears	Tools	5	Units	1. Hedge Shears- for Hedges and Topiary;Blade material: Alloy steel hardened blade, PTFE coated, size: 225 x 45 x 4 mm;Size: 225 x 45 x 4 mm;Comes with wooden handle;Overall length: 700 mm;
7 Pruning Shear with Pole	Tools	5	Units	3. Pruning Shear with pole; Size: 8" (200mm);High carbon steel, hardened tempered blade with Teflon coating PVC dipped handle;telescopic pole length: at least 4m material: steel with TPR Grip ; Cutting blade type: bypass; Ratchet system, Spring loaded action, metal locking latch
8 Hole Diggers	Tools	5	Units	1. Hole diggers; Hole digger head material: High carbon steel,gauge 14;Length of blade: 6 1/2 inches (minimum);Length including hard wood handle: 4feet (minimum);;
9 Drying Meter	Tools	2	Units	Material: Hard Plastic;Soil Level: Measure soil moisture, PH and Light;No battery or electricity needed;Easy to read moisture, light and PH;Plug and Read with 12 " probe;For outdoor and indoor use;The material used must be non-toxic
10 Fruit Crate	Tools	5	Units	Material: Plastic Food grade; Dimensions;; Length= 500mm; Width =360mm; Height=280mm; Comes with sturdy exterior to handle the load and ventilated design;The material used must be non-toxic;The item must be safe to use by High School students;The item must not contain sharp edges or rough surfaces, that may cause injury when used by High School students.;The item must be locally available;The item must be branded
11 Catching net with extendable pole	Tools	5	Units	Can be fabricated; 1. Catching net with extendable pole; 14" in diameter, 33-60" Telescopic Handle, extendable shaft provide ample range and reach; slip-resistant handle; plastic net guard protects netting from ripping or wearing out; rounded corners for easy access to hard to reach areas; equipped with hanging string for easy storage.
12 Knapsack Sprayer	Tools	5	Units	Material: Hard plastic;Type: Backpack Sprayer;Product Dimensions: 23.6 x 17.3 x 7.5 inches (Minimum);Weight: 8.5 pounds (minimum);Capacity: 4 to 5 gallons ;with users manual in English;The material used must be non-toxic
13 Grafting Knife	Tools	5	Pieces	A.) Grafting Knife;Material: Stainless Steel;Thickness: 1 mm to 1.5 mm;Length: 70mm blade;Curved blade and folding;Comes with a 100mm plastic handle with bark lifter;
14 Light Hoe	Tools	5	Units	Material: Tempered Steel;Handle: Hard Wood;Hoe Length: 6.5 ";Hoe Width: 4.5";Overall Length: 54";Thickness: 1/8"

HORTICULTURE

Item Name	Item Classification	Item Quantity	Unit Raw	Description
15 Moisture Meter	Equipment	2	Units	Material: Hard plastic casing; Measurement depth: up to 1/2 " (12.7mm) below surface.; Measurement Range: 5 to 30 % moisture in wood / Relative readings in wall and masonry; Operating Temperature: 32° F to 104° F (0° C to 40° C); Requires 1 x 9 volt battery Batteries (Batteries are included); Digital Reading; with english users' manual
16 Petri Dish	Equipment	2	Units	Material: Polystyrene (PS), Plastic; Diameter: 60 to 75 mm; Height: 15 to 18 mm ; Thickness: 1 mm
17 PH Meter	Equipment	3	Units	A.) PH Meter for Soil; Meter: 5 x 8 x 3.5cm [2 x 3.2 x 1.5"]; Probe length: 21cm [8"]; Bronze probe diameter: 4.8mm ; Silver probe diameter: 5.1mm ; Distance between probes: 1.2cm
18 Pick Mattock	Tools	5	Units	Material: Heavy duty forged steel head; Wooden Handle; Head weight: 2 1/2 pounds; Handle length: 36 inches
19 Picking Knife	Tools	5	Units	Material: High carbon stainless steel blade; Size: 8" blade length; Width: 1" to 1.5"; Thickness: 1.5mm to 2mm; Sturdy, black molded polypropylene plastic handle; Safe to use in dishwasher
20 Channel Lock	Tools	2	Pieces	Overall Length: 20.25 inches; Jaw Length: 3 inches; Joint Thickness: 0.59 inch; Handle Span: 3.31 inches; jaw Capacity: 5.5 inches; No. of Adjustments: 12; Constructed of high-carbon C1080 steel for superior performance; Patented reinforcing edge minimizes stress breakage; Undercut tongue and groove
21 Adjustable Wrench	Tools	2	Set	High-grade alloy steel.; Nickel based plating with brushed finish to reduce rust and corrosion; Forged and heat-treated for durability.; jaw scales in SAE and metric for quick adjustment; Comes with 15", 10" and 6" nominal size/set; Nominal size: 15" Jaw Opening: 40mm; Nominal Size: 10" Jaw opening: 30mm; Nominal Size: 6" Jaw Opening: 20mm
22 Sink Wrench	Tools	5	Pieces	High carbon steel; Heat treated and chrome plated; Jaw swivels to reach difficult places; Course jaws for sure grip; Sliding T-handle and added leverage; Overall Length: 11 "
23 Compression Sleeve Puller	Tools	5	Pieces	This tool is used for easy removal of faucet handles and compression sleeves.; Two large jaws with extra wide opening fits under most handles; Sliding handle provides counter-weight "hammer" action; Heavy steel construction with zinc plating for long lasting durability
24 Pipe Wrench	Tools	5	Pieces	1) Material: Sturdy, cast-iron housing, I-beam handle and floating forged steel hook jaw; 2) Replaceable hook and heel jaws; 3) Non-stick adjustment nut; 5) Capacity: 5" diameter pipe; 6) 18" Pipe Wrench
25 Protective Coat	Personal Protective Equipments	25	Pieces	Material: Polyester; Waterproof raincoat with hood; Velcro pockets on the sides; Sturdy full length zip and stud button fastening; Full hood with tightener; Medium size is approximately 48" long
26 Crates	Equipment	1	Units	Material: PP Plastic; Capacity: 61L; External Size: 600mm x 400mm x 315mm; Internal Size: 555mm x 365mm x 300mm; Inside Dimensions @ Top: 555mm x 365mm; Inside Dimensions @ Bottom: 505mm x 315mm; Max. Load Capacity: 30 kg.; Style: Solid Box
27 Drying Oven	Equipment	1	Units	Material: Mild steel plate having powder coated for exterior, stainless steel plate; for interior chamber, corrosion resistant; Capacity: 1000 liter; Dial thermometer with collar fixing for door; LED display for showing temperature on; thermostatically controlled units; Microprocessor digital controller on; thermostatically controlled units.; Heavy duty shelves; Traceable Calibration Certificate
28 Mower/Grass Cutter	Equipment	1	Units	45.4cc i brush cutter; Borex Stroke: 42.5X32MM Displacement: 45.4cc; Power: 1.6KW; Fuel tank: 0.9L; Shaft diameter: 28mm; Handle: Loop handle; Belt: Super belt; Blade: Nylon cutter or metal blade; Accessories list :; 1.4 teeth blade; 2. nylon cutter; 3. fuel tank; 4. belt; 5. tool kit; 6. manual

HORTICULTURE

Item Name	Item Classification	Item Quantity	Unit Raw	Description
29 Power Sprayer	Equipment	1	Units	1) 5.5hp,4 stroke gasolne engine;2) Dimensions:; Overall length: 80cm(minimum); Overall width: 68cm(minimum); Overall height:87cm(minimum);3) Speed800-1200rpm;4) Maximum pressure up to 500 psi;5) Hose length=30m;6) Comes with spray gun with long spray range at maximum 10meters;7) The sprayer is trolley mounted.;8) With safety valve to ensure safe working and the pressure can be regulated.;9) Comes with English user's manual
30 Rotavator	Equipment	1	Units	Hand Tractor:;Engine: Diesel;Type: 1 cylinder, 4 stroke, horizontal, hooper water cooled diesel;Power: 12HP;Rated Speed: 2000 RPM;Dimensions(LxWxH)(mm): 2680 x 960 x 1250;Ground Clearance: 182mm;Cooling System: Radiator;Implements:;Spiral Blade Plow;Rotavator Plow;Comb Harrow;Paddle Wheel
31 Sorting Equipment	Equipment	1	Units	Weighing Scale:;Top Loading Dial Spring Scale;Stainless Steel bowl;Capacity: 50 kg.;Graduation: 0.2 kg.;Gravity Separator Machine:;Material: Heavy duty steel construction;Essential elements: air flow, speed of vibrations and deck differential action;with vacumm system to eliminate dust;Width: 87";Height: 77";Length: 106";Deck Area: 29.9 sq. Feet;Power: 2HP
32 Rake	Tools	5	Pieces	Material: Steel;Head: 14", 14 Tines, 4" width;48-Inch Wood Handle (minimum)
33 Scissors	Tools	10	Pieces	Material: High carbon steel blades;Handle: Aluminum handle with non - slip PVC coating;Lenght: 215 mm;Blade size: 70mm;Comes in a plastic pouch
34 Shovel	Tools	5	Units	1) Material: Tempered Steel;2) Over-all Length: 37";3) Shovel Handle" 9";4) Wooden Shaft Length: 12";5) Metal part of the Shaft: 8";6) Round Point;7) D-shape
35 Sprinklers	Tools	5	Units	Material: PE Plastic;Size: 48.5cm x 16cm x 27.7 cm;Capacity: 5 liters
36 Step Ladder	Tools	2	Units	MATERIAL: Aluminum ;LADDER HEIGHT: 6';BASE SPREAD: 21" (minimum);LOAD WEIGHT CAPACITY: 250 lb. (minimum);NUMBER OF STEPS: 4;Top step and bottom steps braced; ;Slip-resistant rubber foot pad
37 Cart/Kariton & Paragus	Tools	5	Units	Material: Stainless Steel;Capacity: 300kg to 500kg;4 wheels, 125mm wheel diameter, 2 swivel and 2 rigid with steel structure;Seamless stainless steel handle, 25mm diameter;Anti-skid PP Platform;Foldable handle;Length of Deck: 900mm;Width of Deck: 600mm;Height of Handle: 870mm
38 Pruning Saw with Pole	Tools	5	Units	2. Pruning Saw with pole;Blade material: High carbon steel;Telescopic pole length: at least 4m material: steel with TPR Grip ; Comes with 300mm long two-sided teeth lopper; Comes with teflon coating and double pulley system;Comes with universal pull out and ratchet by pass lopper saw blade
39 Digging Bar	Tools	5	Units	2. Digging bar; Material:steel;Length including metal handle: 4 feet (minimum);Comes with sharp flat bar end with dimensions 3 to 4 inches wide x 1 foot long
40 PPE-Mask	Personal Protective Equipments	25	Units	B) Mask; Visor; material:PC(polycarbonate),PVC;·Visor thickness:1.0mm;1.5mm;2.0mm;-Protection against foreign particles,Chemical splash,heat,and impact resistance;-Can use with bracket 305B and 304B;Shield standard:20*40CM;
41 PPE- Farm Boots	Personal Protective Equipments	25	Units	Farm boots;Material: PVC;Height: 30 cm;Sixes: # 38 to # 45
42 Hand Fork	Tools	13	Units	B) Hand Fork;Material: Heavy duty carbon steel;Grip areas are made of soft rubber;Turned step design for comfortable digging;12.2-Inch long by 3-Inch wide

Source: PepEd TV/ Techvoc Tools & Equipment Database

TECHNICAL SPECIFICATIONS

AQUACULTURE

Item Name	Item Classification	Item Quantity	Unit Raw	Description
1 DO meters	Tools	5	Units	1. Material : Plastic Casing; 2. Type : Digital ; 3. Range: 0 to 50 mg/L; 4. Temperature : -5°C to 45°C; 5. Fast response ; 6. Field-replaceable DO electrode modules; 7. 50 to 100 Ft cable length; 8. Separable probe; 9. LCD Display
2 Water Flow Rate Meter	Tools	5	Units	1. Maximum Operating Pressure: 20 bar (300 psig); 2. Flow Rate : 50 GPM; 3. Power supply : 220 VAC; 4. Display : 3-digit, LED; 5. Operating Temperature: 2 to 66°C; 6. Power: 10 to 30 Vdc @ 80 Ma; 7. With dual alarm for flow and temperature;
3 Laboratory thermometer	Tools	5	Units	1. Dimension: 45mm x 55mm x 28mm (approx); 2. Temperature range: -50 to 70°C; 3. Resolution: 0.1°; 4. Type : Digital; 5. Accuracy: ±1°C; 6. Font Display : 75mm width x 65mm height; 7. Programmable High/Low Alarm and with Low Battery Indicat
4 Shovel	Tools	5	Units	1) Blade material: high carbon steel, 2mm thick; 2) Handle material = hardwood; 3) Width blade= 8 1/2" (minimum); 4) Handle length = 29" (minimum); 5) Total length=40" (minimum); 6) Type: Round nose shovel
5 Water depth gauge	Tools	5	Units	1. Dimensions: 2" Width (minimum) x 7" Height (minimum) x 2" Depth (minimum); 2. Maximum Depth: 2 1/2' to 199'; 3. Screen Size: .93"W x .63"H; 4. Frequency: 200kHz (20° beam); 5. Battery Life: 10 hrs. continuous use; 6. Transmit Power: 200W (RM)
6 Digging blades	Tools	5	Units	1. Blade material: High Carbon Steel; 2. Blade width: 15cm (minimum); 3. Total Length : 100cm (minimum); 4. Comes with wooden handle at 15 cm diameter
7 Electrical tools	Tools	5	Set	<p>Long Nose Plier - 1 pc; Material: Vanadium, chrome steel; Length=150mm (minimum); Comes with rubber insulated handle;</p> <p>Diagonal Side Cutter- 1 pc; Material: chrome vanadium steel; Hardness: HRC 60 - 65; Total Length : 1</p> <p>Flat Screw Driver, Material: Alloy steel, 1/4 shank in diameter, length=8 inches (minimum); Comes with insulated hard plastic</p> <p>Phillip Screw Driver, material: alloy steel, 1/4 shank in diameter, length=8 inches (minimum); comes with insulated hard plastic</p> <p>Multi-tester Digital Type; Dimension, LXW, 150mm X 125mm (minimum); by thickness of 35mm (minimum); 10 to 750 ACV; 0.1 to 1000 DCV, X1 to X1K ohms; 150mA to 150 uA; 0.25 to 50 uA DCA; Comes with test probe/lead, hard plastic casing and manuals, equipped with drop shock proof taut band movement</p> <p>Multipurpose Knife; Blade Material: Stainless Steel; Handle Material: Hardwood; Blade dimension: L= 7 1/2 inch; W= 7/8 inch (minimum); Total Length = 10 1/2"</p> <p>Soldering Iron; Capacity 60 watts (minimum); Rated voltage 220 VAC/60hz, Equipped with two pole molded male plug connectgor for 220 VAC power source with power cable's</p>

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Item Name	Item Classification	Item Quantity	Unit Raw	Description
8 Masonry tools	Tools	2	Set	1) Hand trowel-1 pc; Material: Mild steel plate,1.5mm thick(minimum); Head width=75mm; Head/Blade length width= 130mm; Overall length including handle=250 to 300 mm;2)Claw Hammer -1 pc; Capacity: 16 oz; length=12inche
7 Carpentry tools	Tools	1	Set	The item shall have the following specifications. ; The set consist of the following: ; Claw hammer 16 Oz=1 pc ; Capacity=16oz ,wooden handle ; Cross cut saw-1 pc. ; Blade material=High Carbon steel ; Total length=24 to 26 inches ; Teeth per inch.=4 to 7 teeth ; Comes with Wooden handle ; Try square 300mm = 1pc ; size 300mm with graduation both mm and inches ; Wood chisel,12mm = 1pc ; Blade width=12mm(minimum),handle=hardwood/hardplastic ; Carpenter's pencil = 1 pc ; Spirit level-1pc ; Material- Aluminum ; Total length-60cm ; Three transparent level position,vertical,horizontal &45 degree ; Plumb bob, 16 oz, with eyehook for string nylon 5 meters long-1pc ; Pull Push Rule , with locking system ,5 meters capacity =1pc ; Block plane 10 inches -1pc ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
8 Cultivator / rake	Tools	5	Units	Head Material: Carbon Steel; Head size: 12 to 14 inches; Number of tines:14(minimum); Wooden Handle length: 52 to 56 inches
9 Weighing scale	Tools	1	Set	Weighing Scale, 1kg (1000 g) Capacity, Top-loading type -2 pcs;Weighing Scale, 5kgs (5000 g) Capacity, Top-loading type -2 pcs;Weighing Scale, 10kgs (10000 g) Capacity, Top-loading type -1 pc;Displays weight in grams;With detachable plastic tray;Col
12 Welding Machine with Accessories	Tools	5	Units	1. Aluminum coiled transformer,inverter type; Rated capacity: 175 amperes; power source: 220-240VAC, 50/60Hz, single phase; Portable, Fan-cooled,Thermal protection.;Equipped with two pole molded male plug connector for 220VAC power source; Comes with Accessories: Welding Mask at 2 pcs; Google, clear at 2 pcs Welding gloves at 4pcs, protective clothing (medium size) at 2 pcs; safety shoes (sizes 7 to 9 inches) at 2 pcs; wire brush at 2 pcs each, chipping hammer (length of 8 inches minimum) at 2 pcs; welding rods (ordinary) 3/32 inches in diameter at 1 kilo)
13 Cutting tools	Tools	5	Set	Ax -1pc; Blade material=High carbon steel; Blade capacity= 1/2 to 1 kilo; Comes with hardwood handle;Hacksaw-2 pcs; Material= metal; Equipped with adjustable frame for blade adjustment; Comes with 12 inches blade ,14 TPI;Wood saw-2 pcs.; Blade
10 Floats	Tools	5	Pieces	1) Rubber floats- 10 pcs or equivalent to 5 kilos; 1. Material : Rubber ; 2. Buoyancy : 6800 to 7200 gr; 3. Weight : 1000 gr; 4. Length : 250 mm; 5. Diameter : 220 mm; 6. Hole diameter : 42 mm;2) Styrofoam,round; Diameter=12 inches;3)
11 Safety Boots	Personal Protective Equipments	25	Units	Material: High Elastic PVC ; Size: 39-46; Color: black
12 Sinkers	Tools	5	Units	Material: Lead; 1 kilo per design at 5 designs; 10 grams per piece(minimum); Comes with hole at 1 mm minimum.
13 Eckman Dredge	Tools	5	Pieces	1. Material : Stainless Steel ; 2. Weight : 15 lb to 20lb SST Dredge ; 3. Bottom Opening: 6" x 6"; 4. Two-way spring-loaded mechanism; 5.Extension handles replace messengers in shallow water; 6.Top of the sampling chamber is screened

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Item Name	Item Classification	Item Quantity	Unit Raw	Description
14 Secchi disc	Tools	5	Pieces	1. Material : plastic; 2. Size : 200 mm in diameter(minimum); 3. With 20 meters of 3mm diameter(minimum)rope on a styrofoam; 4. Has four quadrants, two white and two black
15 Water quality test kit	Tools	5	Set	1. Testing Kit includes the following;; Alkalinity : (Range : 0200 ppm), (Wt : 2 lb)(minimum); CarbonDioxide : (Range : 050 ppm , (Wt :2 lb); Chloride : (Range : 0200 ppm), (Wt : 3 lb); DO : (Range : 010 ppm), (Wt :
16 pH meter	Tools	5	Pieces	1. Dimensions :Length: 9inches(minimum); Height : 1-3/4 inches(minimum); Width : 3-3/4 inches(minimum); 2. Type : Digital Type; 3. Input Impedance : 10 ¹² Ohms; 4. PC Connectivity : opt
17 Soil tester	Tools	5	Pieces	1. Material : Aluminum ; 2. Type : Analog Portable Plant ; 3. Measuring Range : 2 to 10pH; 4. Size: 155mm in Lengthx 55 mm in Diameter(minimum); 5. Soil Moisture: 1 to 10 %; 6. Equipped with Button Switch; 7. Length : 16.3 cm(6.4
18 Slidesmith cover	Tools	2	Set	Material; Polyvinylchloride plastic drapery;Size of area of welding cubicle; Length=2 meters (minimum); Width=3 meters(minimum); Height=2 meters(minimum);This prevents the radiation hazards
23 Beaker	Tools	10	Pieces	1. Material : Borosilicate glass; 2. Capacity : 250ml ; 3. Height : 85mm (minimum); 4. Diameter : 65mm (minimum); 5. Thickness : 2mm (minimum); 6. Subdivision : 25ml
19 Netting needle	Tools	5	Set	1. The set consist of the following quantity;; 2. Material: Plastic ; 3. Needle Size: # 8 -1pc #7-1pc, #6-1pc, #5-1pc ; size. #4 -1 pc,#3- 1 pc, #2- 1 pc, #1- 1 pc; 4. Color: Yellow ; 5. N
20 Water current meter	Tools	5	Pieces	1. Material : Hard Plastic; 2. Type : Digital ; 3. Weight (Display Unit) 8.3 oz (230 g); 4. Dimensions (Display Unit) 2.5 " × 2.5 " × 5.1 " (minimum); 5. Dimensions (Included Case) 25 " × 13.5 " × 3.5 " (minimum); 6. Flow Speed Units km/
21 Snorkel	Personal Protective Equipments	25	Units	Material:Rubber/Plastic;Snorkel with mask and flipper;Size: Adult sized mask and flipper
22 Hand gloves	Personal Protective Equipments	25	Units	1. Material:foamed nitrile rubber coated on palm and fingers of the gloves; 2. Size: 22-27cm ; 3. Color :White
28 Hammer Set	Tools	5	Set	1) The set consist of the following item;; 15pcs = 16oz Ballpen hammer; 5pcs = 16oz Cross pen hammer; 5pcs = 16oz Straight pen hammer;2) Total length: 10" to 12 inches;3) Comes with hard wood handle
23 Face mask	Personal Protective Equipments	25	Units	1.)Facemask for aquaculture diving=5 pcs; Size:12.5cm x 9.5 cm(minimum) ; Color:any color; Bacteria Filtration:>95%;2)Facemask against dust=20 pcs; Size:12.5cm x 9.5 cm(minimum); Color:any color; Bacteria Filtration:>95%
24 Bolo	Tools	5	Units	Material: Forged Steel,High Carbon;Overall length: 17 to 17 1/2";Blade length: 12 to 12 1/2";Thickness: 3/16" (minimum);Width: 2 1/4" widest (minimum); 1 3/4" narrowest (minimum)
25 Cast net	Tools	5	Units	1. Material: Nylon; 2. Nylon monofilament casting nets dia.: 0.3 mm(minimum); 3. Mesh size: 1.5 cm(minimum); 4. Width: 2 meters(minimum)
26 Current meter	Equipment	5	Units	Body material:hard plastic;Watt meter-2 pcs.;Volt-ampere meter =3 pcs;Dimensions:L:231mm(minimum) xW:142mm(minimum) xThick:66mm(minimum);Maximum ampere:100A;Output voltage:220/240VAC;Display type: LCD or Analog;Phase:Single phase;Required Qualified electr
27 Dissecting board	Tools	5	Units	1. Material : PVC Board; 2. Thickness: 16 mm(minimum); 3. Size:400 mm x 400 mm(minimum); 4. Color : White

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Item Name	Item Classification	Item Quantity	Unit Raw	Description
28 Dissecting tools	Tools	5	Set	1. Material: Stainless steel;2. Compose of 2 pieces scissors,1 pc. Scalpel (blade with handle), 1 pc. forcep, 2 pcs. teasing needles, 1 pc. pipette with bulb;3. Lengths: All items should have minimum length of 120 mm.; 4. With carrying case that holds
35 Drawing instrument	Tools	5	Set	Material:Plastic,clear;45° triangle by 8 inches(minimum)-1pc;Material:Plastic,clear;60° triangle (4" base minimum)-1 pc;12" hard plasti ruler,with both Metric&English graduation-1 pc;Compass ,steel needle point,can be adjusted to a bigger radius; and
29 Fish grader	Tools	5	Pieces	Material: Aluminum;Dimensions;; Length: 23 1/2 inches(minimum); Width: 19 1/2 inches(minimum); Depth: 10 1/2 inches(minimum);Comes with foam filled for floatation;Can hold up to 10 inches length fish
37 Flashlights	Tools	5	Pieces	BODY MATERIAL: Aluminum;LENGTH: 7"(minimum);DIAMETER: 2"(minimum);BULB TYPE: LED; 2 watts minimum;LIGHT SOURCE COLOR: White;BATTERY TYPE: rechargeable NiMH;Includes220VAC, 50/60Hz Charger
38 Forcep	Tools	5	Units	Material: Stainless steel;Tooth width: 1.4mm(minimum);Total length:13cm(minimum)
39 Claw Hammer	Tools	5	Units	Head Material:Carbon steel;Capacity:16 oz.;Head type:claw;Length including the handle :10 1/2 inches(minimum)
30 Harvesting containers	Tools	5	Units	Material:Plastic;Dimension;; Length=24inches(minimum); Width=16inches(minimum); Height=7inches(minimum);Hole or mesh sizes on both sides and bottom:1/4inch
31 Lab. gown	Personal Protective Equipments	25	Units	Material Fabric cotton; Sizes;; Medium- 6 pcs; Large - 6 pcs; 4 -button closure; 2 lower front pockets; Notched collars; 2-side vents for pants pockets access; Knee length
32 Fishing Net	Equipment	5	Units	Material:HDPE fishing net;Dimensions;; Length=46inches(minimum); Width=14inches(minimum); Thickness=1.2 inches(minimum);Mesh size: 10mm;Equipped with double knot,2 ply;Comes with drive shaft ,it can extends from 33 inches to 6
40 Personal safety gadgets	Personal Protective Equipments	25	Units	1.garden gloves; Material:cotton,latex rubber coated; Size: medium; 2. safety goggles; Material:plastic clear lens; Size:small =5 pcs; medium=15 pcs; large=5pcs; Material must be chemical resistant
33 Refractometer	Tools	5	Units	1) Body material:Aluminum;3)Total length:185mm(minimum);4). Accuracy: 0-32% Brix,1.000-1.120 Specific Gravity;5). Comes in a protective case, calibration srewdriver, 10X lens and 3ml pipette;6) ATCCompensationRange: 10°C to 30°C (50°F to 86°F);7) Comes
34 Ring/vortex blower	Tools	5	Units	1. Material:Die cast aluminium impeller and housing; 2. Dimension: ; Width: 10 inches (minimum); Length: 11 inches (minimum); Height: 13 inches (minimum); 3. Rated power(Motor Output): 0.75kilowatts; 4. Rate
35 Salinometer	Tools	5	Pieces	1) Body material:Plastic,Food grade;2) Dimensions: Length:147mm x Width:27mm xThick: 18mm(minimum);3). Range: 0.00 to 19.99ms/cm;4) Resolution: 0.01ms/cm;5). Accuracy: +/-2%F.S ;6). Battery: 2 pieces 3V (CR1632);7). Temperature Compensation: 0°C to 50°C;
36 Scoop net	Tools	5	Pieces	1. Material : Stainless Steel 8mm to 10mm diameter; 2. Scoop Diameter : 18 inches(minimum); 3.Wooden Handle dimension: diameter of 40 mm., length 2 meters(minimum); 4. Comes with net ,mesh size at 1 mm.

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Item Name	Item Classification	Item Quantity	Unit Raw	Description
37 Seine net	Tools	5	Units	Material:Polyster;MESH SIZE: 1inch holes, 2" Stretch or mesh gauge#139;Lenght Size : Preferably 10 - 20 meters
46 Spatula	Tools	5	Pieces	Material:Polyster;MESH SIZE: 1inch holes, 2" Stretch or mesh gauge#139;Lenght Size : Preferably 10 - 20 meters
38 Steel	Tools	10	Pieces	1) Material:Cold rolled steel-10 pcs; Diameter=7mm(minimum); Length =20 feet;2) Flat steel bar-10 pcs; Dimension; Width: 2 inches(minimum); Thickness=1/4inch; Length= 20 feet
39 Suspension net	Tools	5	Pieces	Material: nylon; 2 to 3 meters wide by 3 to 5 meters long. ;meshes of 0.5 to 1.0 cm square mesh. ; Double line of coarse twine line the margins
54 Surveying equipment	Tools	1	Set	Telescope: ; Magnification: 30x; Field of View: 1 degree 20 minutes; Effective Aperture: 45 mm; Minimum Focus: 3 feet;Angle Measurement ; Minimum Reading: 5 inches; Measuring unit
40 motorized boat	Equipment	1	Pieces	Fabricated with the following materials :; Material: Wood,coated; Length : 22ft(minimum); Depth : 3.5ft(minimum); Engine capacity : 10 HP; Comes with Three layers marine coating
41 generator	Equipment	1	Pieces	1) Dimensions:; Length=51 cm(minimum); Width=41cm(minimum); Height=42cm(minimum);2) Rated A.C.output:2.5KVA;4) Fuel Tank Capacity: 12 liters;5) Fuel:Gasoline or Diesel;6)Operating noise level (at 7m): 65dB(A);7) Comes with english users manual
42 Microscope	Equipment	2	Pieces	1) Binocular type ,Compound; 2) Eyepieces & Objectives set of 4x,10x,40x,and 100x and a paired set of 10x; wide field eyepieces with built-in pointer;3) Material:All Aluminum pressure diecasted body;4) The viewing head is inclined 30
43 Plankton counter	Equipment	1	Pieces	Material: Acrylic,Clear;Comes with 4 inches square base;Grid size to be used in viewing cells;; 3 x 3 mm. for 9 mm square; 4 x 4 mm grid for 16 mm square; 20 x 20 mm grid for 400 square;Cell volume: 1.0 mL ; Includes
44 Puddle wheel	Tools	2	Set	Paddle material: Plastic ; Motor: 1 HP single phase, 220VAC/60Hz.; Number of paddles: 8 paddles; Impeller/Wheel Diameter: 520 mm(minimum); Comes with aerator; With User's Manual In English
45 Water pump	Tools	1	Pieces	Motor type: air cooled, 4 stroke, single cylinder, valve-sided; Max power: 3HP at 4000 RPM; Maximum capacity: 52 gal/minute; Suction head: 4M (13FT); Suction port diameter: 1.5 inches; 1.5" gasoline semi trash water pump; Impell
56 Hauling containers	Tools	5	Pieces	Material:Hard plastic;Capacity:20 kilos;Height: 250mm (minimum);Comes with carry handle slots
89 vehicle	Equipment	1	Pieces	Type of Body: Pick -up type,2 doors,2 seater; Displacement: 1.3L ,4cylinder engine; Transmission:5 speed manual ; Four wheel drive; Tank capacity:40liters; Fuel type:Gasoline; Chassis structure:integral ; Rear suspension type:leaf spring
46 oxygen tank	Equipment	1	Pieces	Oxygen Cylinder (20 cu.ft.);Brand new;Comes with regulator,connectors and hose for fish at least 5 meters
63 Storage/tool cabinet	Equipment	1	Pieces	Materials : Mild steel plate,gauge # 20; Dimension : 60" Height x 36" Width x 18" Depth(minimum); No. of Shelves: 5 adjustable shelves; Finish : Enamel Painted; Complete with lock and duplicate key, with 2 swing-type doors, hinged on both sides
92 Feed storage	Equipment	1	Pieces	1) Material:Metal,gauge 19 (thickness);2) Dimensions:; Width=18 inches(minimum); Length= 120cm (minimum); Height (at front)= 76cm (minimum); Height (at the back)= 116cm (minimum);3)The cover equipped with handle and hinges for easy clousure.

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Item Name	Item Classification	Item Quantity	Unit Raw	Description
47 Chilling tank	Equipment	1	Pieces	Material: Stainless Steel;Dimension:;Length: 30 inches x Width:30 inches x 36 inches high, (minimum); Thickness: 2mm;Comes with rolled edge for better strength and with handle;Comes with 1/2 inches pipe fitting attached with valve for supply and drain.
48 Gill net	Tools	5	Pieces	Mesh Size:16mm to 30mm diagonal;Depth:3ft(minimum);Thickness:0.2mm(minimum);Length:50meters;Knot Type:Single;Color:Clear White

Source: DepEd TUL/Techvoc Tools & Equipment Database

TECHNICAL SPECIFICATIONS

AGRICULTURAL CROPS PRODUCTION

Item Name	Item Classification	Item Quantity	Unit Raw	Description
1 Rice Thresher	Equipment	1	Units	1. Dimension ; Length= 1800mm(minimum) ; Width= 1000mm(minimum) ; Height= 200mm(minimum) ; 2. Capacity: 300 to 500kg/h ; 3.Power: 5 to 7 hp. ; 4. Type of Machine: puddy rice threshing machine ; 5. Engine: Diesel ; 6. Comes with user's guide ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
2 Power Sprayer	Equipment	1	Units	1) Dimensions: ; Overall length =64cm(minimum) ; Overall width: 57cm(minimum) ; Overall height:44cm(minimum) ; 2) Power rated:6.5hp,4 stroke diesel ; 3) Rated voltage: 220V/60Hz. ; 4) Transmission mode:belt ; 5) Spraying pressure :20 - 35 bar ; 6) Max vertical reach: atomization nozzle:7m; jet nozzle:15meters ; 7) Hose dimensions=8.5 mm dia. X 30 meters length with steel hose reel. ; 8) Equipped with filter the suction line ; 9) Comes with atomization and jet nozzle ; 10) With safety valve to ensure safe working and the pressure can be regulated. ; 11)Equipped with two pole molded male plug connector for 220VAC power source ; with power cable's length at least a minimum of 1.5 meters ; 12) Comes with English user's manual ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
3 Rotavator	Equipment	1	Units	1.Dimension: 1730 mm(minimum)x800mm(minimum) ; 2.Horse Power: 8 to 9HP ; 3.Power type: Diesel ; 4.Comes with shaft drive transmission ; 5.Tilling width: 1250 mm to 1450 mm ; 6.Tilling width depth: 150 mm to 200 mm ; 7.Blade: 5 groups/4pieces dry land blade ; 8.Comes with shaft drive transmission ; 9.Accompanied with operation manual in English ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
4 Sorting Equipment	Equipment	1	Units	Material:metal/galvanized iron sheet,coated ; Dimension: Length=6 meters(minimum) ; Width= 1.8meters(minimum) ; Height=1.1meters(minimum) ; Power=1.1KW ; Classifying speed=5000 fruits/hr.(minimum) ; Comes with stand for elevation ; Equipped with two pole molded male plug connector for 220VAC power source ; with power cable's length at least a minimum of 1.5 meters ; Comes with user's manual in english ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
5 Spike Tooth Harrow	Equipment	1	Units	Material: steel ; Dimension: 5feet X 6 feet(minimum)-rectangular shape (pipe, flat bar and angle bar) ; Tooth size: 1/2" square bar tampered (minimum) ; Tooth length: 8" (minimum) ; Come with welded rectangular shape, and painted ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
6 Tractor	Equipment	1	Units	1. Dimension: L: 2000 to 2200mm xW: 800 to 900mm x H: 1100 to 1300mm(minimum) ; 2. Type: Two Wheel Drive,Belt drive,Anti skid ; 3. Engine: 7 to 10 HP ; 4. Speed: 2300 to 2600 rpm ; 5.Cooling system:Water cooled,Diesel ; 6.Number of blades: 8(minimum) ; 7. Complete with accessories ; 8. Accompanied with operational manual in English ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded

AGRICULTURAL CROPS PRODUCTION

Item Name	Item Classification	Item Quantity	Unit Raw	Description
7 Bolo	Tools	13	Units	Material: Forged Steel,High Carbon ; Overall length: 17 to 17 1/2" ; Blade length: 12 to 12 1/2" ; Thickness: 3/16" (minimum) ; Width: 2 1/4" widest (minimum); 1 3/4" narrowest (minimum) ; Full Tang ; Comes with Sheath and wooden handle ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
8 Post Hole Digger	Tools	13	Units	1. Blade Material: high carbon steel,1.5mm thick ; 2. Handle material: Hardwood ; 3. Blade length: 7 to 9 inches ; 4. Blade Width: 5 to 7 inches ; 5. Handle length: 45 to 48 inches ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
9 Moisture Meter	Tools	13	Units	Case material:Plastic ; Type: digital meter ; Moisture range: 1 to 100% ; pH range: 3.5 to 8 pH ; Probe length: 8 1/4" (minimum) ; Easy to read moisture, pH and light levels ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
10 Fruit crate	Equipment	5	Units	Material: Plastic,PE ; Dimension: ; Length=560mm(minimum) ; Width= 400mm(minimum) ; Height= 260mm(minimum) ; Type: mesh ; Comes with sturdy handle ; The material used must be non-toxic. ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
11 Sickle	Equipment	5	Units	1. Blade Length: 7 inches(minimum) ; 2. Over-all Length: 15 inches(minimum) ; 3. Comes with wooden handle(minimum) ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
12 Knapsack Sprayer	Tools	13	Units	1) Material: Stainless Steel ; 2) Dimensions : ;Height=18" ; Width=12 1/2" ; 3) Capacity: 4 gallons ; 5) Working pressure: 1 - 2.5Mpa ; 6) Comes with complete accessories including the adjustable nozzle,rubber hose,strainer,connectors,control valve,pumping lever and shoulder straps. ; 7) Comes with user's manual in english ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
13 Knife	Tools	13	Units	1) Blade material:Stainless steel ; 2) Handle material: Hardwood ; 3) Blade dimension: ; Length= 7 1/2" ; Width = 7/8 "(minimum) ; 4) Total length = 10 1/2" ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
14 Light hoe	Tools	13	Units	Hoe Material: Tempered Steel,1/8"(minimum) ; Hoe Length: 6.5"(minimum) ; Hoe Width: 4.5"(minimum) ; Overall Length: 54" ; Handle: Hard Wood ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
15 Petri dish	Equipment	5	Units	Material: PP plastic,clear ; Diameter: 150 mm (minimum) ; Height: 15 mm (minimum) ; Comes with optically clear and flat bottom ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
16 pH Meter	Equipment	5	Units	1. Type : Digital Type ; 2. Input Impedance : 10 ¹² Ohms ; 3. PC Connectivity : opto-isolated USB, micro USB cable & software ; 4. Electrode/Probe : Titanium body with internal temperature sensor DIN connector and 1m to 2m cable. ; 5. Battery Type/Life : 1.5V AA batteries, approximately 200 hours of continuous use without backlight ; 6. Range (pH) : - 2.000 to 20.000 ; 7. Resolution (pH) : 0.1/0.01/0.001 ; 8. Accuracy (pH) : +/- 0.002 pH ; 9. Dimensions (" L) : 9 ; 10. Dimensions (" H) : 1-3/4 ; 11. Dimensions (" W) : 3-3/4 ; 12.Calibration : Up to 5 points ; 13. Comes with plastic storage and users manual in English ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded

AGRICULTURAL CROPS PRODUCTION

Item Name	Item Classification	Item Quantity	Unit Raw	Description
17 Pick Mattock	Tools	13	Units	Material: Heavy duty forged steel head ; Chisel blade=1.5 inches(minimum) ; Pick axe length=6 inches(minimum) ; Head capacity: 1.0 pound (minimum) ; Wooden Handle(hard wood) ; Handle length: 36 inches(minimum) ; The head must be press fitted for maximum safety ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
18 Picking Knife	Tools	13	Units	1.Material: stainless steel blade ; 2.Lenght while closed or folded: 3 to 4 inches ; 3.Lenght of blade: 3 to 4 inches ; 4. Overall Length- 6 to 7 inches ; 5. Foldable ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
19 Plow	Tools	13	Units	Share/Blade made of Ferromanganese material or equivalent ; Type:cultivator ; Working depth: 200mm(minimum) ; Working width: 200mm(minimum) ; Total heigh=37-1/2"(minimum) ; With complete regulating bar ,ring,chain and shackle ; Comes with Solid steel frame and metal handle ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
20 PPE-Protective Coat	Tools	13	Units	100% Polyester ; Zipper closure ; Machine Wash ; Front-zip fleece jacket ; On-seam zippered side-entry pockets ; Size: small to large;small=5;medium=15pcs;large=5 pcs ; The material used must be non-toxic. ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
21 Prunning Shears	Tools	13	Units	Material: high carbon steel and die cast vinyl chloride ; Blade length: 54mm (minimum) ; Overall length: 200mm (minimum) ; Comes with insulated handle ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
22 Rake	Tools	13	Units	Tine material: high carbon steel ; Tine number: 14 pcs (minimum) ; Handle length: 51" (minimum) ; Tine length: 2 3/4" (minimum) ; Comes with hard wood handle and welded blade socket ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
23 Scissors	Tools	13	Units	Blade material=High carbon steel ; Length=8-3/8"(minimum) ; Comes with hard plastic handle ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
24 Seedling tray	Equipment	5	Units	Material: Polyethylene plastic ; Dimension: ; Length=10 inches(minimum) ; Width=20 to 26 inches ; Depth: 1 to 2 inches ; Maximum Capacity: 100 seedlings ; The material used must be non-toxic. ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
25 Shovel	Tools	13	Units	1) Blade material: Tempered or high carbon steel plate,2mm thick ; 2) Handle material = hardwood ; 3) Width blade= 8 1/2"(minimum) ; 4) Handle length = 29"(minimum) ; 5) Total length=40"(minimum) ; 6) Type:Round nose shovel ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
26 Sprinklers	Equipment	5	Units	1. Material: plastic ; 2.Dimension: ; Lenght=17cm(minimum) ; Width= 6cm(minimum) ; Height=13cm(minimum) ; 3.Capacity: 2 to 3 gals ; 4: Comes with handle and spout ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
27 Step Ladder	Equipment	5	Units	Material: aluminum U channel ; Capacity: 250 lbs (minimum) ; Number of step: 6 (minimum) ; Height: 6Feet(minimum) ; Comes with twin step, slip resistant and folded ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded

AGRICULTURAL CROPS PRODUCTION

Item Name	Item Classification	Item Quantity	Unit Raw	Description
28 Transplanting Tools	Tools	13	Units	Head material: Carbon stainless steel ; Head width= 6 cm(minimum) ; Comes with measurements marked directly on the heads in centimeters for depth marked purposes ; Comes with plastic handle ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
29 Trowel	Tools	13	Units	1.Material: metal,1.5 mm thick(minimum) ; Head width=75mm ; Head/Blade length width= 130mm ; Overall length including handle=250 to 300 mm ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
30 Carts	Tools	13	Units	Capacity: 770 lbs load ; Type: heavy duty gardening trolley cart (all terrain) ; Tires type: off-road-pneumatic (10 inches) ; Number of tires: 4 ; Comes with long handle w/steering function ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
31 Comb-tooth Harrow	Tools	13	Units	Tooth: corrugated bar 12 mm diameter ; Distance between tines :5 to 6 inches ; Number of tines: 10(minimum) ; Height: 24 to 30 inches ; Materials: Handle- G.I pipe 30 to 40 SDR ; Must be accompanied with 8 to 10 m rope 15mm in diameter ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
32 Rice Reaper	Equipment	1	Units	1. Dimension: Length:1850 to 2390 x Width:1470 to 1750 . xHeight: 900 to 1060mm ; 2. Cutting Width: 100 to 120 cm ; 3. Power Output: 5 to 8 HP ; 4. Engine Type:Gasoline, air-cooled, 4 stroke single cylinder ; 5. Drive Type: shaft or gear ; 6. Fuel Capacity: 3 to 4 liters ; 7. Working Capacity: 3 to 4 hours ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
33 Mower/Grass Cutter	Equipment	1	Units	1. Dimension: ; Length= 177cm(minimum) ; Width=62 cm(minimum) ; Height= 41 cm(minimum) ; 2. Engine : 2 or 4 stroke ; 3.Power source:220VAC/60Hz. ; 4. Comes with complete accessories and operation manual in English ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded
34 Portable Chain Saw	Equipment	1	Units	1.Power: 4.9 KW ; 2. Type: Pole Chainsaws ; 3. Engine: Single cylinder, Two-stroke, Air-cooling power ; 4. Chain: 0.404 inches to 0.63 inches ; 5. Volume of Fuel Tank : 1200 ml(minimum) ; 6. Guild bar size: 30 inches to 40 inches solid bar ; The item must be safe to use by High School students. ; The item must be locally available ; The item must be branded

Source: DepEd Technical/TVL Tools & Equipment Database