



PROJECT: Mass Production and Supply of Science and Mathematics Equipment Packages to Public Elementary for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10 and Public Senior High Schools for Grades 11 to 12 (CORE and STEM)

CONTRACT NO.: 2022-BLR4(001to006)-BV-CB001-C028

CONTRACT

THIS CONTRACT made and entered into this 29th day of August 2023 by and between the **DEPARTMENT OF EDUCATION**, located at DepEd Complex, Meralco Avenue, Pasig City, represented herein by its Undersecretary for Human Resource and Organizational Development, **GLORIA JUMAMIL-MERCADO**, as per Department Order No. 001, s. 2023, dated 09 January 2023 and Office Order OO-OSEC-2023-60, dated 14 March 2023 (hereinafter referred to as "**DEPED**"); and **NIKKA TRADING**, represented herein by its Authorized Representative, **JONATHAN R. ZULUETA**, with office address at Unit 1014 Cityland, Herrera Tower, V.A. Rufino Street cor. Valero Street, Salcedo Village, Makati City (hereinafter referred to as "**NIKKA**"), as per Omnibus Sworn Statement dated 17 January 2022 (hereto attached as Annex "A").

DEPED and **NIKKA** are collectively called **PARTIES**.

WHEREAS, DEPED invited bids for the mass production and supply of Science and Mathematics Equipment Packages consisting of 14 lots, and received bids from three (3) bidders for Lot No. 9; **DEPED** opened, read, and evaluated the bids and declared **NIKKA** as having the Lowest Calculated Bid for Lot No. 9; after evaluation, **DEPED** post-qualified the bid of **NIKKA** and initially declared the same as disqualified; **NIKKA** submitted a request for reconsideration for Lot No. 9 on 28 March 2022; **DEPED** granted **NIKKA**'s request for reconsideration on 04 April 2022, and declared the bid of **NIKKA** as the Lowest Calculated Responsive Bid for Lot No. 9 in the sum of **PHILIPPINE PESOS ONE HUNDRED ONE MILLION, ONE HUNDRED EIGHT THOUSAND, EIGHT HUNDRED THIRTY-EIGHT AND 95/100 (PHP101,108,838.95) ONLY**, (hereinafter called the "Contract Price"), detailed as follows:

Lot No.	Description	Amount (PhP)
9 MI-MTI	MATHEMATICAL TOOLS AND INSTRUMENT (MI-LOT 9)	101,108,838.95

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract referred to.

[Signature]
 NIKKA's Witness

[Signature]
 JONATHAN R. ZULUETA
 NIKKA

[Signature]
 ARIZ DE LOS ANJOS
 DEPED's Witness

[Signature]
 GLORIA JUMAMIL-MERCADO
 DEPED

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Contract, viz:

- a. Philippine Bidding Documents;
 - i. General and Special Conditions of the Contract;
 - ii. Schedule of Requirements; and
 - iii. Technical Specifications;
 - iv. Bid Bulletin No. 1 dated 29 December 2021, Bid Bulletin No. 2 dated 17 January 2022, Bid Bulletin No. 3 dated 21 January 2022, and Bid Bulletin No. 4 dated 27 January 2022;
- b. **NIKKA's** bid, including the eligibility requirements, technical and financial proposals, and all other documents or statements submitted in accordance with the Bidding Documents;
- c. Performance Security;
- d. Notice of Award (NOA) of Contract and **NIKKA's** conforme thereto; and
- e. Other contract documents required by existing laws and/or DepEd in the Bidding Documents. **NIKKA** agrees that additional contract documents of information prescribed by the Government Procurement Policy Board (GPPB) that are subsequently required for submission after the contract execution such as, but not limited to, Notice to Proceed, Variation Order, and Warranty Security, shall form part of the Contract.

3. **NIKKA** shall post a Performance Security within 10 calendar days from receipt of the NOA in the form and amount prescribed therein. The Performance Security shall be posted in favor of **DEPED**, and shall be forfeited in the event that it is established that **NIKKA** is in default of any of its obligations under this Contract. **NIKKA** shall be responsible for the extension of its performance security and/or undertake to renew its Performance Security whenever necessary, and without the need for prior notice of instruction from **DEPED**, to ensure that it is in force and effect for the whole duration of the Contract and until a Certificate of Final Acceptance is duly issued.

4. The goods referred to in this Contract must be ready for pick-up and hauling by the designated hauling service provider within **210 CALENDAR DAYS** from the receipt of the Notice to Proceed (NTP). **NIKKA** shall ensure that the goods to be picked up and hauled must be in accordance with the Schedule of Requirements, which is hereto attached as Annex "B" and made an integral part hereof.

5. **DEPED** shall have the right to visit and inspect **NIKKA's** premises covered by the Contract at any time or stage of the contract implementation to monitor and assess **NIKKA's** capacity to discharge its contractual obligations.


NIKKA's Witness


JONATHAN R. ZULUETA
NIKKA


ARIZ DE LEON LACAY D. CAWILAN
DEPED's Witness


GLORIA JUMAMIL-MERCADO
DEPED

6. **DEPED** shall have the right to inspect and test or cause the testing of the goods covered by the Contract, at any time or stage of contract implementation. Prior to and for purposes of inspection, **NIKKA** shall ensure convenient access to the goods for inspection. **NIKKA** shall assign personnel to undertake the handling, unpacking, assembly, commissioning, disassembly, repacking, resealing, and sorting of the goods prior to, during, and after inspection.

7. The goods shall be inspected by the designated Inspectorate Team prior to pick-up and hauling from **NIKKA**'s warehouse in accordance with the provisions of the Special Conditions of the Contract, the Schedule of Requirements, or otherwise indicated in other parts of the Bidding Documents. **NIKKA** shall coordinate with **DEPED**, through the Procurement Management Service-Contract Management Division (ProcMS-CMD), on the conduct of inspection of goods. Any request for inspection shall be done in writing and contain the following information:

- a. Project Title and Contract Number;
- b. Specific goods for inspection;
- c. Quantity of goods for inspection;
- d. Venue/Address of inspection site; and
- e. Proposed schedule of inspection which must be at least 10 calendar days from the submission of the written request.

The request for inspection or PDI must be submitted to **DEPED** through ProcMS-CMD or by email at procms.cmd@deped.gov.ph.

8. The goods must conform to and comply with the standards mentioned in Section VI. Schedule of Requirements of the Bidding Documents, and Technical Specifications under Section VII of the same document, which is hereto attached as Annex "C" and made an integral part hereof.

Any proposal by **NIKKA** to deliver goods of different technical specifications, in lieu of those indicated in Section VII. Technical Specifications of the Bidding Documents, shall not be allowed. However, under justifiable circumstances, *i.e.* fortuitous events, force majeure, acts of God, public state emergency, or those defined under the Civil Code and other similar circumstances, delivery of goods of equivalent, higher, or superior technical specifications may be permitted, subject to the evaluation and favorable recommendation of the **DEPED**'s end-user or implementing unit, and the approval of the herein authorized signatory. In any such case, the proposal by **NIKKA** for substitution shall be in writing and shall not result in any additional cost or undue burden to **DEPED**.

9. Title to the goods shall pass from **NIKKA** to **DEPED** after inspection and upon acceptance by the latter. After inspection and acceptance, **NIKKA** shall ensure that the goods are appropriately sealed and fit for hauling and transport. **NIKKA** shall also ensure convenient access to the goods for hauling.


NIKKA's Witness


JONATHAN R. ZULUETA
NIKKA


ARIZ DEZON ACAY D. CAWILAN
DEPED's Witness


GLORIA JUMAMIL-MERCADO
DEPED


NIKKA's Witness

10. The goods shall be picked up or hauled by the designated hauling service provider of **DEPED** within 90 calendar days after the date of inspection and acceptance as reflected in the Inspection and Acceptance Report (IAR). The said period is intended to provide **DEPED**, through the designated hauling service provider, sufficient time to undertake the hauling of the goods.

However, during the 90-day intervening period, **NIKKA** shall retain the risks over the goods and have the residual obligation to ensure the safekeeping of the goods while the same are in its custody. **NIKKA** shall assume accountability over the goods until the pick-up or hauling of the same and the issuance of the Transfer Manifest by the designated hauling service provider.


JONATHAN R. SULUETA
NIKKA

Further, assembly, installation, start-up, and/or commissioning of goods, in cases where they are necessary, shall remain to be the responsibility and for the account of **NIKKA** notwithstanding inspection and acceptance at its warehouse or premises.

11. Goods with defects or non-compliant with the required technical specifications upon delivery shall be rejected, orally or in writing, by **DEPED** and replaced by **NIKKA** in accordance with the warranty provisions in the bidding documents. The replacement of the goods shall be subject to re-inspection.


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness

12. In case **NIKKA** encounters condition(s) impeding timely delivery of the goods, **NIKKA** shall promptly notify **DEPED**, through the **Bureau of Learning Resources-Cebu (BLR-Cebu)**, in writing within five (5) calendar days from notice of such condition(s). Any request for work suspension and/or contract period extension shall be promptly done in writing as soon as circumstances justifying such request have become apparent. **NIKKA** must provide sufficient proof to support any request for work suspension and/or contract period extension.

13. The Contract Price shall be paid to **NIKKA** in accordance with the following disbursement procedures:

- a. **NIKKA** may submit a request for payment based on the following:
 - i. **NIKKA's** invoice showing goods' description, quantity, unit price, and total amount;
 - ii. Duly signed Delivery Receipts in sequential order of DR numbers (cumulative quantities of goods delivered based on the schedule of deliveries and other relevant terms and conditions of the Contract);
 - iii. Duly signed IARs, including certification by **NIKKA**, duly signed and dated by **DEPED**, through the authorized representative of BLR-Cebu, indicating that the goods have been delivered in accordance with the Contract; and
 - iv. Warranty Certificate.


GLORIA JUMALAY MERCADO
DEPED

Other documents in support of a request for payment may be required by **DEPED** pursuant to existing disbursement, accounting, and auditing rules and procedures.

b. Payment shall be made to **NIKKA** within 60 days from submission of the documents specified in SCC Clause 2.2 and other documents as may be prescribed by **DEPED** in the following manner:

i. For every progress payment, a minimum of 25% of the Contract Price shall be paid to **NIKKA** upon delivery of at least 25% of the goods and acceptance of the same by the duly authorized representative of **DEPED**;

ii. Final payment shall consist of the full and final payment of the unpaid inspected and accepted goods, subject to the submission of the required documents under the Bidding Documents.

14. Payment shall be subject to the "Warranty" provision in the form of either retention money in an amount equivalent to three percent (3%) of the progress payment or a Special Bank Guarantee in an amount equal to three percent (3%) of the Contract Price required under Section 62 of RA 9184 and its revised IRR.

a. A one-year warranty for the goods shall reckon from the date of the issuance of the Certificate of Final Acceptance by **DEPED**.

b. In case **NIKKA** opts for retention money, the amount shall be released at the expiration of the warranty period or the remaining amount in case it has been utilized pursuant to the warranty provision unless, during the remainder of the warranty period, the retention money is substituted with a special bank guarantee.

15. Each party in the performance of their respective duties and responsibilities under this Contract and in the implementation thereof shall adhere to Republic Act No. 10173, otherwise known as the "Data Privacy Act of 2012." Any gathered data and information should be protected and respected during the term and even after the termination of this Contract. The processing of any gathered data and information should be in compliance with the confidentiality and privacy requirements under the said law and applicable regulations.

16. **NIKKA** shall be liable for liquidated damages in an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery, for every day of delay until such goods are finally delivered and accepted by **DEPED**. **DEPED** shall deduct the liquidated damages from any money due or which may become due to **NIKKA**, or collect from any of the securities or warranties posted by **NIKKA**, whichever is convenient to **DEPED**. Once the accumulated amount of liquidated damages reaches 10% of the Contract Price, **DEPED** may rescind or terminate the Contract, without prejudice to other courses of action and remedies available under the circumstances.


NIKKA's Witness


JONATHAN R. PULUETA
NIKKA



ARIZ DELSOL ACAY D. CAVILAN
DEPED's Witness

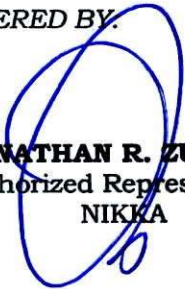

GLORIA JUMAMIL-MERCADO
DEPED

17. The **PARTIES** shall make every effort to resolve amicably and by mutual consultation any and all disputes or differences arising between the **PARTIES** in connection with the implementation of the Contract. Should such dispute not be resolved amicably, it shall be submitted to Early Neutral Evaluation pursuant to Republic Act No. 9285 or the "Alternative Dispute Resolution Act of 2004", and its Implementing Rules and Regulations.

IN WITNESS WHEREOF, the **PARTIES** hereto have caused this Contract to be executed in accordance with governing laws on the day and year first above written.

SIGNED, SEALED AND DELIVERED BY:


GLORIA JUMA MIL MERCADO
Undersecretary for Human Resource
and Organizational Development
DEPED


JONATHAN R. ZULUETA
Authorized Representative
NIKKA

SIGNED IN THE PRESENCE OF:


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


NIKKA's Witness

CERTIFIED FUNDS AVAILABLE: ₱ 101,108, 838.95


MA. RHUNNAL CATALAN

Chief Accountant
m.46

REPUBLIC OF THE PHILIPPINES)
PASIG CITY, METRO MANILA) S.S

ACKNOWLEDGMENT

PASIG CITY

BEFORE ME, a Notary Public in and for _____,
Philippines, this 05 SEP 2023 day of _____ 2023 personally appeared:

NAME

GLORIA JUMAMIL MERCADO
Undersecretary for Human Resource
and Organizational Development
DEPED

GOVERNMENT ISSUED ID
(Number, Issued On, Issued By)

P6519758A, 22 March 2018
DFA Manila

Known to me and to me known to be the same person who executed the foregoing instrument and acknowledged to me that the same is the free and voluntary act and deed of the entity which he/she respectively represents.

The foregoing instrument is a CONTRACT consisting of six (6) pages (exclusive of attachments), excluding this page on which this acknowledgment is written and signed by the party hereto.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. 156;
Page No. 33;
Book No. 122;
Series of 2023.


ATTY LETICIA M. AMON
NOTARY PUBLIC
Pasig, Pateros & San Juan
Valid Until December 31, 2023
Roll No. 22188
PTR A.A.N. 0112306.01-03-23
Lifetime IBP Member No. 04286
Official Receipt No. 574709. IBP Chapter
MCLE Compliance No. VII-0000050/6-18-2019
Ground Flr. Armal Centre, U. Velasco, Ave.,
Malinao, Pasig City

φ 3: 

REPUBLIC OF THE PHILIPPINES)
MAKATI CITY, METRO MANILA) S.S

ACKNOWLEDGMENT **MAKATI CITY**

BEFORE ME, a Notary Public in and for _____,
Philippines, this ____ day of AUG 30 2023 2023 personally appeared:

NAME

JONATHAN R. ZULUETA
Authorized Representative
NIKKA

GOVERNMENT ISSUED ID
(Number, Issued On, Issued By)
P6219471A, FEBRUARY 28, 2018
DFA NCR WEST

Known to me and to me known to be the same person who executed the foregoing instrument and acknowledged to me that the same is the free and voluntary act and deed of the entity which he/she respectively represents.

The foregoing instrument is a CONTRACT consisting of six (6) pages (exclusive of attachments), excluding this page on which this acknowledgment is written and signed by the party hereto.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. 283
Page No. 58
Book No. 32
Series of 2023.



NOTARY PUBLIC

ATTY. SHERLUCK JUN C. VILLEGAS
Notary Public for Makati City
Appt. No. M-274 until Dec. 31, 2024
Unit 3C LTA Building, 118 Perea St.
Legaspi Village, Makati City
Roll No. 70942
IBP No. 180225/ 11-22-2022/ Pasig City
PTR No. 0583991 / 01-17-2023/ Makati City
MCLE Compliance No. VII-0020869/April 14, 2025



Omnibus Sworn Statement (Revised)

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF **MAKATI**) S.S.

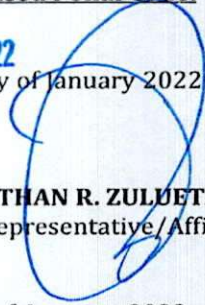
AFFIDAVIT

I, **JONATHAN R. ZULUETA**, of legal age, married, Filipino, and residing at Lot 5 Block 4 Scienceville, Betterliving, Parañaque City, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the authorized representative of **Andronica T. Roma**, doing business under the name and style of **Nikka Trading**, with office address at Unit 1014 Cityland Herrera Tower V. A. Rufino St. cor. Valero St., Salcedo Village, Makati City;
2. As the authorized representative of **Nikka Trading/Andronica T. Roma**, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Mass Production and Supply of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 & Grades 4 to 6, Public Junior High Schools for Grades 7 to 10 and Public Senior High Schools for Grades 11 to 12 (CORE & STEM)** of the **Department of Education (DepEd)**, as shown in the attached duly notarized Special Power of Attorney;
3. **Nikka Trading/Andronica T. Roma** is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. **Nikka Trading/Andronica T. Roma** is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. **Nikka Trading/Andronica T. Roma** complies with existing labor laws and standards; and
8. **Nikka Trading/Andronica T. Roma** is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the **Mass Production and Supply of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 & Grades 4 to 6, Public Junior High Schools for Grades 7 to 10 and Public Senior High Schools for Grades 11 to 12 (CORE & STEM)**.
9. **Nikka Trading/Andronica T. Roma** did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this 17 day of January 2022 at Makati City, Philippines.

JAN 17 2022

JONATHAN R. ZULUETA
Authorized Representative/Affiant


JAN 17 2022
SUBSCRIBED AND SWORN to before me this 17 day of January 2022 at Makati City, Philippines. Affiant known to me, and known to be the same person in the exhibited his Passport No. P6219471A valid until February 27, 2028 with his photograph and signature appearing thereon, issued on February 28, 2018 at DFA NCR.

JAN 17 2022
Witness my hand and seal this 17 day of January 2022.

Doc. No. 32
Page No. 8
Book No. 3
Series of 2022.



NAME NOTARY PUBLIC _____
Serial No. Of Commission _____
Notary Public for ___ until _____
Roll of Attorney's No. _____
PTR No. _____
IBP No. _____


ATTY. SHERLUCK JUN C. VILLEGAS
Notary Public for Makati City
Appl. No. M-260 until Dec. 31, 2022
Unit 3C LTA Building, 118 Perea St.
Legaspi Village, Makati City
Roll No. 70942
IBP No. 155267 / 08-03-2021 - Pasig City
PTR No. 8852016 / 01-03-2022 / Makati City
MCLE Compliance No. VI-0028223/August 13, 2019



SCHEDULE OF REQUIREMENTS

List/Description of Goods /Services

The delivery schedule expressed below stipulates the date upon which the goods are ready for pick-up or hauling at the supplier's warehouse.

Lot No.	Item No.	Description	Total Quantity	Delivery Period
Mass Production Items				
9	1	Balance, Double-pan, 500-gram	14,905	210 Calendar Days from the receipt of NTP
	2	Blackboard Triangle, 30° x 60° and 45° x 45°	5,012	
	3	Calculator, Graphing, non-projectable	19,985	
	4	Calculator, Scientific	71,600	
	5	Digital Clock, tabletop	1,191	
	6	Measuring Kit (Volume)	1,191	
	7	Meterstick, plastic	59,620	
	8	Protractor, student-type	119,240	
	9	Ruler, Plastic, 12 inches/30 cm	119,240	
	10	Scale, Spring, Hanging type	1,191	
	11	Scale, Weighing, analog, 10 kg. capacity	1,191	
	12	Scale, Weighing, bathroom-type	1,191	
	13	Stopwatch, digital	14,905	
	14	Tape Measure, 1.5 meters	59,620	
	15	Template, shapes	14,905	
	16	Thermometer, Classroom, wall-mount	1,790	
	17	Thermometer, Clinical, digital	8,950	
	18	Thermometer, Laboratory type, Alcohol, - 20°C to 110°C	14,905	
TOTAL:			530,632	

TECHNICAL SPECIFICATIONS

Item	Description	Specifications
DETAILED PRODUCT SPECIFICATIONS (MARKET ITEMS)		
LOT 9: MATHEMATICAL TOOLS & INSTRUMENT		
1	Balance, Double-pan, 500-gram	<p>Functional Specifications: Used to compare object masses.</p> <p>Performance Specifications: Must be able to measure mass of an object up to 1000 grams.</p> <p>Design Specifications:</p> <p>1) Used for comparative weighing to determine the difference in mass between two (2) objects, the double-platform beam balance comes equipped with built-in sliding masses.</p> <p>2) Capacity: 2,000 grams</p> <p>3) Readability: 0.002 kg.</p> <p>4) Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g</p> <p>5) NTEP Resolution: 1: 5,000</p> <p>6) Platform size: Ø15.2 cm</p> <p>7) Platform type: Plate (metal)</p> <p>8) Dimensions (w x d x h): 35.5 cm x 24.1 cm x 17.8 cm (+/- 2mm)</p> <p>9) Net Weight: 2.1 kg.</p> <p>10) Comes with four (4) Weights as follows:</p> <p>10.1) 1 pc. 1,000-gram Weight</p> <p>10.2) 1 pc. 500-gram Weight</p> <p>10.3) 1 pc. 200-gram Weight</p> <p>10.4) 1 pc. 100-gram Weight</p> <p>11) Comes with an Instruction Manual in English.</p> <p>12) Comes with a storage plastic case.</p> <p>13) Manufacturer of the country of origin should issue certificate of calibration for every item.</p> <p>14) Should be branded.</p>
2	Blackboard Triangle, 30° x 60° and 45° x 45°	<p>Functional Specifications: Used to demonstrate special triangles.</p> <p>Performance Specifications: Must be able to show the relationship among sides and angles of special right triangles.</p> <p>Design Specifications:</p> <p>1. Material: Sturdy plastic, smooth, not flexible, and with handle</p> <p>2. Permanent graduation markings in cm on all sides</p> <p>3. For 30° x 60°:</p> <p>Base: 50 cm minimum</p> <p>Thickness: 4 mm minimum</p> <p>4. For 45° x 45°:</p> <p>Base: 50 cm minimum</p> <p>Thickness: 4 mm minimum</p> <p>5. Individually packed in a sturdy plastic bag with zipper</p> <p>6. The items should be free from toxic materials.</p>
3	Calculator, Graphing, non-projectable	<p>Functional Specifications: Used to calculate, graph, and analyze mathematical concepts that have been programmed to it as one of its built-in functions.</p> <p>Performance Specifications: Must be able to store, calculate, display, graph, input, analyze and interpret data, simple and complex equations/formulas, graphs and/or charts using easy access function menus/keys.</p> <p>Design Specifications:</p> <p>1. Non-projectable Graphing Calculator;</p>

93.0

		<p>2. Stores/calculates/displays input data, complex equations and formulas, graph and or chart;</p> <p>3. Upgradeable operating system. Software is accessible via the internet and may be downloaded upon receipt of the unit and thereafter;</p> <p>4. Memory: 26 KB-RAM (minimum) and 450 KB-ROM (minimum);</p> <p>5. Display size: at least 8 lines x 16 characters per line;</p> <p>6. Seven (7) different graph styles for differentiating the look of each graph drawn;</p> <p>7. Easy access function menus;</p> <p>8. Readily connectable to Personal Computers (comes with connection accessories);</p> <p>9. Operates on dry cells. Comes with dry cells and is ready to use;</p> <p>10. Comes with user's manual in English containing operation guide of the featured functions and in replacing the battery;</p> <p>11. Must operate as stated above and in the manual; and</p> <p>12. Brand must be established in providing quality products for five (5) years and up.</p> <p>13. Includes training on the use and maintenance (please refer to Quality Assurance Procedure during Contract Implementation on the details).</p>
4	Calculator, Scientific	<p>Functional Specifications: Used to show mathematical computations.</p> <p>Performance Specifications: Must be able to show correct mathematical calculations using its built-in functions/formula.</p> <p>Design Specifications:</p> <p>1. Display: LCD, 2 line(s) X 10 characters (minimum), stably shows input expressions/equation, calculation result, and various indicators;</p> <p>2. Built-in functions not less than 240; inclusion of the following:</p> <p>a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, and radian (including conversion of the mentioned Basic Calculations);</p> <p>b) Memory calculation, Logarithm, and Hyperbolic functions;</p> <p>c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and</p> <p>d) Trigonometric functions: sin, cos, tan, sin-1, cos-1, tan-1;</p> <p>3. Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operate as such correspondingly;</p> <p>4. Power requirement: two-way dual (battery, built-in solar system), the unit consistently operational after replacing the battery for three trials, its solar system powers the unit normally in a well-lit room without the battery;</p> <p>5. Brand must be established in providing quality products for five (5) years and up.</p>
5	Digital Clock, tabletop	<p>Functional Specifications: Used to show/display the time in numerals.</p> <p>Performance Specifications: Must be able to display hh:mm format.</p> <p>Design Specifications:</p> <p>1. Font Height: 30mm to 40mm;</p> <p>2. Dry Cell Battery operated</p> <p>3. LCD display; With or without On/Off switch</p> <p>4. Minimum Display: Time (hour, minutes & seconds);</p> <p>5. Can be set in 12-hour setting;</p> <p>6. The item shall be free from toxic materials;</p> <p>7. Ready to use and comes with a new battery.</p>

Q-3-2

<p>Functional Specifications: Used primarily to measure the volume of liquid or bulk solid</p>	<p>Measuring Kit (Volume)</p>	<p>Performance Specifications: Must be able to measure volume of liquid using different types of measuring tools</p> <p>Design Specifications:</p> <p>1) Material: Plastic, translucent so that liquid inside can be seen easily</p> <p>2) Kit includes the following measuring tools:</p> <p>a. Set of Measuring Jars:</p> <ul style="list-style-type: none"> i) 1 gallon/4000 mL ii) 1/2 gallon/2000 mL iii) 1 quart/1000 mL iv) 1 pint/500 mL v) 1 cup/250 mL <p>b. Set of measuring pitchers:</p> <ul style="list-style-type: none"> i) 1 quart = 32 oz/1000 mL ii) 1 pint = 16 oz/500 mL iii) 1 cup = 8 oz/250 mL <p>c. Set of measuring cups:</p> <ul style="list-style-type: none"> i) 1 cup/236 mL ii) 1/2 cup/118 mL iii) 1/3 cup/79 mL iv) 1/4 cup/59 mL v) 1/8 cup/29.5 mL <p>d. Set of measuring spoons:</p> <ul style="list-style-type: none"> i) 1 Tbsp (15mL) ii) 1/2 Tbsp (7.5mL) iii) 1 tsp (5mL) iv) 1/2 tsp (2.5mL) v) 1/4 tsp (1.25mL) <p>3) Features include both customary and metric measurements showing appropriate graduations in each kind of measuring tool.</p> <p>4) Permanent graduations and labels</p> <p>5) Materials used should be free from toxic materials.</p> <p>Functional Specifications: Used to measure length.</p> <p>Performance Specifications: Must be able to measure the length of objects on flat surfaces up to 1000mm in Metric and 39.37" in English standards of measurement.</p> <p>Design Specifications:</p>	<p>Meterstick, Plastic</p>
<p>Design Specifications:</p> <p>1. Material: Plastic;</p> <p>2. Thickness: 6 mm (minimum);</p> <p>3. Width: 24 mm (minimum);</p> <p>4. Length: 1,000 mm;</p> <p>5. The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions;</p> <p>6. The back is scaled in inches, numbered in every inch with 1/8 inch divisions;</p> <p>7. The numbers and division lines are in dark color;</p> <p>8. Must be straight and flat; and free from toxic materials;</p> <p>9. Edges and Surfaces should be smooth and even;</p> <p>10. Comes with plastic jacket;</p>	<p>7</p>		

		11. Standard abbreviation of the measurement unit/s must be followed; and
8	student-type	<p>Functional Specifications: Used to measure angles in degrees.</p> <p>Performance Specifications: Must be able to draw/construct and measure angles and arcs up to 180°.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Protractor, student-type, plastic, transparent, semi-circular, 180°; 2. Ø150mm (or 75mm radius), 1mm thick (minimum); 3. Angular graduations are in degrees, from 0° to 180°. With two (2) sets of numerals, one reading clockwise and the other reading counterclockwise; 4. Linear graduations are in millimeters, from 0 to 100mm; 5. With a hole at vertex point enough for a fine string to pass through it; 6. Plastic Surface Finish: Smooth, clear, and free from scratches; 7. It must be horizontally level when laid flat on a table - no warping; 8. Comes with a plastic case;
9	Ruler, Plastic, 12 inches/30 cm	<p>Functional Specifications: Used to measure length and draw straight lines</p> <p>Performance Specifications: Must be able to measure length of objects on flat surfaces up to 30cm in Metric and 12" in English standards of measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum); 2. Approximate Width x Length: 28 mm x 314 mm; 3. Graduations: Metric graduations on one side while English graduations on the other side: *Metric graduations are in centimeters, from 0 cm to 30 cm, with every cm subdivided by 10. *English graduations are in inches, from 0 inches to 12 inches, with every inch subdivided by 16. 4. Clear, readable black, non-groove permanent prints (will not fade and cannot be scratched off); 5. Bendable up to U-shape when held at both ends; and 6. The item shall be free from toxic materials.
10	Scale, Spring, Hanging type	<p>Functional Specifications: Used to measure weight or force by hanging objects</p> <p>Performance Specifications: Must be able to measure mass of an object up to 1,000 grams.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Maximum Capacity: 25 kilograms 2. Must conform with industry standard graduations for rated capacity. 3. Color: Any Color 4. Comes with an Instruction Manual in English 5. Manufacturer of the country of origin should issue certificate of calibration for every item. 6. Should be branded.
11	Scale, Weighing, analog, 10 kg. capacity	<p>Functional Specifications: Used to measure weight and/or mass of an object</p>

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		<p>Performance Specifications: Must be able to measure mass of an object up to 10 kilograms.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Weighing Scale, 22 pounds/10 kg. Capacity, starting from zero (0) to 10kg. 2. Dual mode English/metric display that displays weight in pounds and grams. 3. Has a large round dial display for easy use. 4. Includes a removable stainless steel bowl which is dishwasher safe. This weighing scale is a classic rotary dial mechanical kitchen scale 5. Color: Blue 6. Format: Mechanical kitchen scale 7. Mechanism Type: Spring Lever 8. Measurement units: Pounds/Kilograms 9. Display Type: Round speedometer type dial 10. Scale Size: 8.3" (210mm) wide x 9.25" (235mm) deep (+/- 3mm) 11. Dial Increments: 1 oz. / 50 g. 12. Manufacturer of the country of origin should issue certificate of calibration for every item.
12	Scale, Weighing, bathroom-type	<p>Functional Specifications: Used to measure a person's weight</p> <p>Performance Specifications: Must be able to measure weight from 0 to 120 kg</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1) Mechanical Dual Reading lbs/kg bathroom scales (analog) 2) Comes with a free Body Mass Index Chart printed and laminated on glossy paper (Font Height: 1 cm. minimum, Style: Century Gothic or Arial) 3) Maximum Capacity: 120 kgs/264 lbs 4) With two years warranty 5) Should be made of metal and plastic combination with powder coating finish for metal parts. 6) Will remain stable when a child steps on it 7) Manufacturer of the country of origin should issue certificate of calibration for every item. 8) The item should be free from toxic materials.
13	Stopwatch, digital	<p>Functional Specifications: Used to show time elapse in hours, minutes, and seconds.</p> <p>Performance Specifications: Must be able to show time elapsed in hours, minutes and seconds.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Digital type, water-resistant (5-bar) 2. Start, stop, and re-set operations 3. Display Number: 4mm W x 10mm H 4. Measure Unit: 1/100th of a second 5. Working Range: up to 23hr 59min 59sec 6. Individually and properly packed in a box. 7. Instruction Manual in English 8. Approximate W x H x T: 60mm x 67mm x 20mm 9. Ready to use and comes with extra batteries.
14	Tape Measure, 1.5 meters	<p>Functional Specifications: Used to quantify the size of an object or the distance between objects</p>

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		<p>Performance Specifications: Must be able to measure size/distance of an object up to 1.5 meters.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Tape Measure, 12 mm width x 1.5 meters long 2. Made of flexible fiberglass fabric with metal end pieces 3. Color: White with black graduation markings 4. Graduation: in cm on one side and inches on the other side, smallest graduation in mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case.
15	Template, shapes	<p>Functional Specifications: Used to scaffold drawing of basic geometrical shapes.</p> <p>Performance Specifications: Must be able to aid drawing different geometrical shapes.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. A transparent plastic template; minimum of 24 geometric shapes 2. Ideal for drawing geometric shapes. 3. Minimum dimensions: 14 cm x 20 cm 4. Minimum thickness: 2 mm 5. The items shall be free from toxic materials.
16	Thermometer, Classroom, wall-mount	<p>Functional Specifications: Used to determine the prevailing air temperature inside a room in real-time</p> <p>Performance Specifications: Should be able to determine the prevailing air temperature inside a room in real-time</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Alcohol-filled red color, glass tube type 2. Overall length: 762 mm (minimum) 3. Tube containing liquid column: 23 inches 4. Temperature range: -40°C to +50°C 5. Fahrenheit scale optional 6. Must be branded
17	Thermometer, Clinical, digital	<p>Functional Specifications: Used to determine human body temperature.</p> <p>Performance Specifications: Must be able to measure body temperature digitally.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Clinical Thermometer, for armpit use 2. With yellow or white background, nice looking and easy reading 3. Temperature range: 35°C - 42°C and 94°F - 108°F (dual scale) 4. Accuracy: 0.1°C and 0.2°F 5. Length: 105mm (minimum) - 115mm (maximum) 6. With plastic tube case 7. Should be branded.
18	Thermometer, Laboratory type, Alcohol, -20°C to 110°C	<p>Functional Specifications: Used to measure the temperature</p> <p>Performance Specifications: Must measure the temperature, -20° to 110°C</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Alcohol-filled, partial immersion thermometer

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	<p>2. Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center</p>
	<p>3. Material: Glass</p>
	<p>4. Color: White</p>
	<p>5. Non-toxic red-filled thermometer</p>
	<p>6. Partial immersion type with immersion line indicator and ring top</p>
	<p>7. With precision red alcohol-filled, reinforced bulbs, and with expansion chamber</p>
	<p>8. With white back with non-roll sleeve</p>
	<p>9. With clear and permanent markings; scale never washes out</p>
	<p>10. Provided with non-roll plastic case</p>
	<p>11. With continuous alcohol column</p>
	<p>12. Dimensions:</p>
	<p>13. Range: -20°C to 110°C</p>
	<p>14. Division: 1°C</p>
	<p>15. Length: 300 mm (minimum)</p>
	<p>16. Accuracy: ± 1° C</p>
	<p>17. Diameter: 5.8 to 6.2 mm</p>
	<p>18. Immersion line: 76 mm</p>
	<p>19. Manufacturer of the country of origin should issue certificate of calibration for every item.</p>
	<p>20. Must be free from breakage, cracks, chipped and sharp edges and other defects</p>
	<p>21. Comes with a brand</p>

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