## Section VII. Technical Specifications

## **Notes for Preparing the Technical Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (e.g. production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

## Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "or at least equivalent." References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.



## **Technical Specifications**

Item	Specification	Statement of Compliance
No.		[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]
1	(PATH - FIT 2) PHYSICAL ACTIVITY TOWARDS HEALTH and FITNESS ACTIVITIES (COMBATIVE SPORTS), 2023 by: Bulatao et al	
2	(PATH FIT 1) Physical Activity Towards Health and Fitness 1 Health & Wellness Movement Educ. & Exercise Program, 2021 by: Bulatao et al	
3	(PATH FIT 3 DANCE) Physical Activity Towards Health & Fitness (Folk Dance, Cheer Dance, Contemporary Dance, Street Dance, Hip Hop Dance, Social Dances), 2022 by: Bulatao et al	
4	5G and 6G Communication Technologies, Gacovski, 2022	
5	A Step-by-Step Guide to welding, Reynolds, 2023	
6	A Visual Reference to Culinary Arts, 2nd ed., 3G E-Learning, 2023	,

7	A Visual Reference to Food Styling, (2nd Edition), PB, 2023 by 3G E- Learning	
8	A Visual Reference to Housekeeping, 2nd ed., 3G E-Learning, 2023	
9	Adolescent Development, Mecus, 2019	
10	Advance Management Information System, 2023 by: Abante, M.V.	
11	ADVANCED COMPUTER ORGANIZATION & ARCHITECTURE, PB, 2021 by SARANGI	
12	Advanced Databse Management Systems (3rd Edition), PB, 2023 by 3G E-Learning	
13	Alternative Education in Unconventional Environments, Ramirez, 2023	
14	An Introduction to CBT Research, PB, 2020 by Rakovshik	
15	An Introduction to Coaching Skills, PB, 2020 by van Nieuwerburgh	
16	Analyzing and Interpreting Qualitative Research, PB, 2022 by Vanover	
17	Applied Business Tools and Technology in Tourism, 2nd ed., 3G E Learning, 2023	
18	Art appreciation, 2023 by: Gravela et al	
19	Asian Cuisine, 2022, BY: Jam Melchor	
20	Auditing Principles & Practices, PB, 2023 by 3G E- Learning	
21	Automotive Engineering An Introduction, Farese, 2018	
22	Automotive Technician Training Theory, 2nd ed., Denton, 2022	
23	Banquet and Catering Management, 2022 BY: Vizconde et. Al	
24	Bar and Beverage Management, 2022 BY: Vizconde et. Al	
25	Basic Baking & Cake Decorating, 2018 BY: Natad	
26	Basic Computer Coding: C+++ (2nd Edition), PB, 2022 by 3G E-Learning	
27	Basic Computer Coding: CSS (2nd Edition), PB, 2022 by 3G E-Learning	
28	Basic Computer Coding: HTML (2nd Edition), PB, 2022 by 3G E-Learning	
29	Basic Computer Coding: Java Script (2nd Edition), PB, 2022 by 3G E- Learning	

30	Basic Computer Coding: PHP (2nd Edition), PB, 2022 by 3G E-Learning	
31	Basic Computer Coding: Python (2nd Edition), PB, 2022 by 3G E- Learning	
32	Basic Computer Coding: Responsive Design (2nd Edition), PB, 2022 by 3G E-Learning	
34	Basic Computer Coding: SQL (2nd Edition), PB, 2022 by 3G E-Learning	
35	Basic Electrical and Electronics Engineering, 3rd ed., 3G E-Learning 2023	
36	Basic Electrical Installation Work level 2, Linesley, 2019	
37	BEGINNING SOFTWARE ENGINEERING, SECOND EDITION, PB, 2023 by STEPHENS	
38	Blockchain Revolution Birth of Cryptocurrencies, Blytha, 2022	
39	BOOKKEEPING ESSENTIALS FOR DUMMIES, 3RD AUSTRALIAN EDITION, PB, 2021 by CURTIS	
40	Bread and Pastry, 2022, BY: Karol Aquino	
41	Business Management, Sutherland, 2023	*
42	BUSINESS MODEL YOU: THE ONE-PAGE WAY TO REINVENT YOUR WORK AT ANY LIFE STAGE 2ND EDITION, PB, 2023 by CLARK	
43	C# 10.0 ALL-IN-ONE FOR DUMMIES, PB, 2022 by MUELLER	, .
44	C++ ALL-IN-ONE FOR DUMMIES, 4TH EDITION, PB, 2021 by MUELLER	
45	Carpentry Residential and Commercial Intermediate, Clarke, 2022	
46	Coaching and Mentoring, PB, 2022 by Garvey	
47	Collection on Agriculture: Plantation Farming, HB, 2022 by 3G E- Learning	
48	Collection on Business Management: Artificial Intelligence for Marketing, HB, 2023 by 3G E-Learning	
49	Collection on Computer Science: 6GN for Future Wireless Networks, HB, 2023 by 3G E-Learning	
50	Communicating w/ purpose, 2023 by: Mejia	
51	Communication Matters, 4th edition, PB, 2022 by Floyd	

52	Communication Skills in English, Poonam, 2023	
53	Computer Applications (2nd Edition), PB, 2022 by 3G E-Learning	
54	Computer FUNDAMENTALS, 2023 by: Revano	
55	Computer hardware and Software Tools, 2022 by 3G E-LEARNING	
56	Computer Networks and Security (2nd Edition), PB, 2022 by 3G E- Learning	
57	Computer Organization (3rd Edition), PB, 2022 by 3G E-Learning	
58	Computer Services Management (3rd Edition), PB, 2023 by 3G E- Learning	
59	Computer Systems & Architecture (2nd Edition), PB, 2022 by 3G E- Learning	
61	Computer Systems and Networking Technology (2nd Edition), PB, 2023 by 3G E-Learning	
62	Computer Systems Application, PB, 2023 by 3G E- Learning	
63	Conduct Detailed Inspection of Electrical Installations, 3G E-Learning, 2022	
64	Contemporary Sociological Theory, PB, 2021 by Loyal	
65	Contemporary World, 2023	
66	Cookery, 2022, BY: Etrata et. Al	
67	Core Concepts in Hospitality and Tourism: Restaurant Services, 3G E- Learning, 2019	
68	Creating an Actively Engaged Classroom, PB, 2022 by Whitney	,
69	Culinary Nutrition, 2021, BY: Lolita Mendoza	
70	Customer Care Service and Hospitality Ethics, 3G E Learning, 2023	
71	Customer Realtionship Management/Nelson, 2023	
72	Data analysis and Information processing, HB, 2023 by Arcler Press	
73	Data Analysis and Information Processing, Jovan Pehcevski, 2023	
74	Data Structure and Algorithm, HB, 2023 by Arcler Press	
75	Database Systems (3rd Edition), PB, 2023 by 3G E- Learning	
	Data Structure and Algorithm, HB, 2023 by Arcler Press  Database Systems (3rd Edition), PB, 2023 by 3G E-	

77	Debujo: Contemporary Philippine Arts from the Regions by. Basilan, 2018	
78	Design Thinking for Digital Well Being, Theory and Practice for Educators, Chambers, 2019	
79	Dessert Making Beginners Guide Step-by-Step Instructions, Powell, 2023	
80	DIGITAL MARKETING FUNDAMENTALS: OMCP'S OFFICIAL GUIDE TO OMCA TMCERTIFICATION, PB, 2023 by JARBOE	
81	Discrete Mathematics for Computer Science An Example-Based Introduction, By Jon Pierre Fortney, PB, 2021 by	
82	Discrete Mathematics, 3rd ed., 3G E-Learning, 2023	
83	Doing Critical Research, PB, 2021 by Alvesson	
84	Earth Science: World Edition (2nd Edition), PB, 2023 by 3G E-Learning	
85	Education Around the Globe, Huber, 2021	,
86	Effective Business Communication, Devi, 2023	
87	Effective Business Communication, 2nd edition, PB, 2020 by Jain	
88	Electromagnectic Fields (2nd Edition) (Book with DVD), PB, 2022 by 3G E-Learning	
89	Electronics Technology (2nd Edition), PB, 2023 by 3G E-Learning	
90	English Conversation Skills, Dr. Yadav, 2023	
91	English Grammar Dictation, Thakan, 2023	
92	English Pronounciation Skills, Yadav, 2023	
93	Entrepreneurship, 2022, BY: Marcelo, Samson	
94	Entrepreneurship, 4th ed., 3G E Learning, 2023	
95	Environmental Planning and Protection, Dr. Singh, 2023	
96	Environmental Processes and Change The Global System, Singh, 2023	
97	Environmental science, 2022 by: Santos	
98	Environmental Science for Beginners, Naidoo, 2023	

99	Essentials of Athletic Injury Management, 12th edition, PB, 2023 by Prentice	
100	Essentials of Business Communication, 3G Elearning, 2022	
101	Essentials of Strength Training and conditioning, 3G E-Learning, 2022	
102	Essentials of Teaching Physical Education, (3rd Edition) (Book with DVD), PB, 2022 by 3G E-Learning	
103	Essentials of User Interface Design, HB, 2022 by Alvin Albuero De Luna	
104	Ethics 101 An Exploring on the Concept of Right and Wrong, 2020 by: Jaime Ang	
105	Ethics in Information Technology: A Practical Guide, By G. K. Awari, PB, 2022	
106	Ethics of Data and Analytics:Concepts and Cases, By Kirsten Martin, PB, 2022	
107	Experience Baking NEW, 2020 BY: Cariño, Lazaro	
108	Fashion Designing Intermediate, Davies, 2022	
109	Feeding of Organic Farm Animals: Pigs, Poultry, Cattle, Sheep and Goats, HB, 2022 by Vijay D. Kele and Parth Hirpara	
110	Food and Beverage Cost Control, HB, 2021 by Society	*
111	Food Processing, 2021, BY: Jamille Jaravata	
112	Food Production Management, 2018, BY: Samson, BORJA	
113	Food Science and Health: Diet and Disease (2nd Edition), (Book with DVD), PB, 2022 by 3G E-Learning	
114	FRONT-END BACK-END DEVELOPMENT WITH HTML, CSS, JAVASCRIPT, JQUERY, PHP, AND MYSQL, PB, 2022 by DUCKETT	
115	Fundamentals of Accounting, 3G E Learning, 2023	
116	FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS, THIRD EDITION, PB, 2023 by GILLENSON	
117	Fundamentals of food science and technology, 2024	
118	Fundamentals of Food Service in Operation, 2022 BY: R. Dela Cruz	

119 GENDER AND SOCIETY, 2022 by: Martinez  120 General Management Skills for Hotel Managers, 3rd ed, 3G E Learning, 2023  121 General Mathematics, 3rd ed., 3G E Learning, 2023  122 Gymnastics: The Complete Guide to Training and Fitness, 3G E Learning, 2022  123 Hady Guide: Banquet Service Procedures, 2nd ed., 3G E Learning, 2023  124 Halal cookery, 2024  125 Handy Guide: Automotive Repairing, 2nd ed., 3G E Learning 2023  126 Handy Guide: Automotive Servicing, 2nd ed., 3G E Learning 2023  127 Handy Guide: Bookkeeping (Book with DVD), (2nd Edition), PB, 2023 by 3G E-Learning)  128 Handy Guide: Bookkeeping, 2nd ed., 3G E-Learning, 2023  129 Handy Guide: Welding, 2nd ed., 3G E-Learning, 2023  130 High Performance Training for Sports, 3G E-Learning, 2023  131 INSULATION ENGINEERING, SECOND EDITION, HB, 2022 by ARORA  132 Hotal Operation Reports, Calculations and Bookkeeping, 4th ed., 3G E Learning, 2023  133 Human Resource Management, 2e, 2020 BY: Pereda, Arcega  134 Human Resource Management for Hospitality and Tourism Industry, Sharma, 2023  135 Hygiene, Safety and First Aid in Hospitality, 3G E Learning, 2023  136 Image and Sound Processing for Social Media, Pal, 2023  137 Incorporating Natural Product into the Human Diet, Marotirao, 2023  138 Indigenous Community Based Education, Yazon, 2022  139 Information Assurance and Security 1&2, 2022 by: Abante ET AL  140 Information Communication Technology in Education, Thamarasseri, 2023			
120 3rd ed, 3G E Learning, 2023  121 General Mathematics, 3rd ed., 3G E Learning, 2023  122 Gymnastics: The Complete Guide to Training and Fitness, 3G E Learning, 2022  123 3G E Learning, 2022  124 Hald Cookery, 2024  125 Handy Guide: Automotive Repairing, 2nd ed., 3G E Learning 2023  126 Learning 2023  127 Handy Guide: Automotive Servicing, 2nd ed., 3G E Learning 2023  128 Handy Guide: Bookkeeping (Book with DVD), (2nd Edition), PB, 2023 by 3G E-Learning  129 Handy Guide: Bookkeeping, 2nd ed., 3G E-Learning, 2023  129 Handy Guide: Welding, 2nd ed., 3G E-Learning, 2023  130 High Performance Training for Sports, 3G E-Learning, 2023  131 INSULATION ENGINEERING, SECOND EDITION, HB, 2022 by ARORA  132 Hotal Operation Reports, Calculations and Bookkeeping, 4th ed., 3G E Learning, 2023  133 Human Resource Management for Hospitality and Tourism Industry, Sharma, 2023  134 Human Resource Management for Hospitality, 3G E Learning, 2023  135 Hygiene, Safety and First Aid in Hospitality, 3G E Learning, 2023  136 Incorporating Natural Product into the Human Diet, Marotirao, 2023  137 Incorporating Natural Product into the Human Diet, Marotirao, 2023  138 Indigenous Community Based Education, Yazon, 2022  139 Abante ET AL  140 Information Communication Technology in	119	GENDER AND SOCIETY, 2022 by: Martinez	
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141	Information Systems (3rd Edition), PB, 2023 by 3G E-Learning	
142	Information Systems Fundamentals, 2019 by: Revano	
143	Innovative Food Service and Emerging Technologies, 3G E Learning, 2023	
144	International Cuisine, 2022, BY: Victoriano et.al	
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