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.

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Technical Specifications

Item No.	Specification	Statement of Compliance
		[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	3G Handy Guide: Agile Project Management, 3G E Learning, 2023, ISBN: 9781984680198	
2	3g Handy Guide: Digital Production and Editing, 3g Learning, ISBN: 9781984680754	
3	3g Handy Guide: Graphics Designing 2nd ed., 3g learning, ISBN: 9781984680778	

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4	3GE Collection of Enviromental Science: Fossil Fuels in the 21st Century, 3g Learning, ISBN: 9781984659996	
5	3GE Collection on Business Management: Managing Customer Experience and Relationships by 3g Learning, ISBN: 9781984680891	
6	3GE Collection on Computer Science: Quantum Computing in Cybersecurity and Artificial Intelligence, 3g Learning, ISBN: 9781984680976	
7	3GE COLLECTION ON Engineering Robotic Process Automation, 3g Learning, ISBN:9781984660022	
8	3GE Collection on Environmental Science: Modern Environmental Disasters, 3g Learning, ISBN: 9781984659972	
9	50 Quality Improvement & Quality Assurance Approaches, Mansell, ISBN: 9781529726930	
10	Accounting What the Numbers Mean, Marshall, ISBN: 9781265051563	
11	Adaptive Signal Processing, Zhao, 2020, ISBN: 9781642245448	
12	Advance Cyber Security, Singh, 2023, ISBN: 9781774695333	
13	Advanced Database Management System, 3g Learning, ISBN:9781984679697	
14	Advertising & Promotion, Hackley, ISBN: 9781529718508	
15	Algebra A Comprehensive Course, Houston, 2023, ISBN: 9781647253608	
16	Algorithms for Dummies, Mueller, ISBN: 9781119869986	
17	An Introduction to Coaching Skills, 3g Learning, ISBN: 9781984658852	
18	An Introduction to Personality Individuals Differences & Intelligence, Huslam, ISBN: 9781529729948	
19	Applied Algebraic and Differential Calculus, Moriera, ISBN: 9781774691793	
20	Apply Digital Solutions to Work Processes, 3G E Learning, 2022, ISBN: 9781984658593	
21	Apply Project Quality Management Techniques, 3G E Learning, 2022, ISBN: 9781984658623	
22	Architectural Designing and Planning, 3g Learning, ISBN: 9781984678942	
23	Assessing the Microbiological Health of Ecosystem, Hurst, ISBN: 9781119678328	
24	Assured Cloud Computing, Campbell, 2018, ISBN: 9781119428633	
25	Basic Computer Coding: Responsive Design, 3g Learning, ISBN: 9781984659002	

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26	Basic Computer Coding: Visual Basic, 3G E Learning, 2019, ISBN: 9781984622907	
27	Basic Electrical and Electronics Engineering, 3g Learning, ISBN: 9781984680150	
28	Beginning Programming with Python for Dummies, Mueller, ISBN: 9781119913771	
29	Beginning Software Engineering 2nd ed., Stephens, ISBN: 9781119901709	
30	Being with Data: The Dashboarding of Everyday Life, ISBN: 9781509545322	
31	Bird's Electrical Circuit Theory and Technology, Bird, ISBN: 9780367672225	
32	Business Communication, Locker, ISBN: 9781265045630	
33	Computer Aided Drawing and Drafting 2nd ed., 3g Learning, ISBN: 9781984680136	
34	Computer and Information Science An Interdisciplinary Approach, Clark, 2023, ISBN: 9781647284190	
35	Computer Hardware & Software Tools, 3g Learning, ISBN: 9781984659071	
36	Computer Networking: An Innovative Approach, Martin, ISBN: 9781647263218	
37	Computer Programming for Engineers, Prashar, 2023, ISBN: 9789395337670	
38	Computer Services Management, 3G E Learning, 2023, ISBN: 9781984679703	
39	Computer Systems Servicing Intermediate, Rogers, 2023, ISBN: 9798888361115	
40	Concurrent, Parallel and Distributed Computing, Kuzmiakova, 2023, ISBN: 9781774694480	
41	Crafting Qualitative Research Questions, Baker, ISBN: 9781071819135	
42	Creative Multimedia: Animation, 3g Learning, ISBN: 9781984680006	
43	Critical Reflection and the Foreign Language Classroom, Osborn, 2021, ISBN: 9781648024184	
44	Curriculum Design and Lesson Planning, 3G E Learning, 2023, ISBN: 9781984679529	
45	Cyber Security, 3G E Learning, 2023, ISBN: 9781984679765	
46	Cyber-Physical Systems, Nardelli, ISBN: 9781119785163	
47	Data Analysis and Information Processing, Pehcevski, ISBN: 9781774695265	
48	Data Centre Management, 3G E Learning, 2023, ISBN: 9781984679611	
49	Data Communications & Networking with TCP/IP Protocol Suite, Forouzan, ISBN: 9781260597820	

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50	Data Science Without Makeup, Zhilkin, 2022, ISBN: 9780367520687	
51	Database Systems 3rd. Ed., 3g Learning, ISBN: 9781984679642	
52	Database Systems Design and Management, Thompson, 2023, ISBN: 9781639876655	
53	Debating Same Sex Marriage, Bello, 2022, ISBN: 9781774690642	
54	Decision Intelligence for Dummies, Baker, ISBN: 9781119824848	
55	Deep Learning Algorithms, Gacovski, 2022, ISBN: 9781774691830	
56	Design of Mechanical Elements, Raeymaekers, ISBN: 9781119849919	
57	Design Thinking for Business Growth, Leurick, ISBN: 9781119815150	
58	Developing an Anti Harassment Corporate Policy: A Guide to Safe Workplaces, Jain/ISBN: 9781774690246	
59	Differential Equations An Introduction, Fletcher, 2023, ISBN: 9781639876662	
60	Digital Etiquette for Dummies, Butow, ISBN: 9781119869801	
61	Digital Media & Society 2nd ed., Lindgren, ISBN: 9781473925014	
62	Digital Media Ethics, Ess, ISBN: 9781509533435	
63	Digital Signal Processing, Newman, 2023, ISBN: 9781647284206	
64	Dissecting Computer Architecture, De Luna, ISBN: 9781774694398	
65	Dynamic Digital Marketing, mcGruer, ISBN: 9781119635888	
66	e-Commerce, 3G E Learning, 2023, ISBN: 9781984680716	
67	Effective Sustainability Strategies: How to Build Them, Gonzalez, 2022, ISBN: 9781774690123	
68	Electrical Technology 2nd ed., 3g Learning, ISBN: 9781984679956	
69	Elementary Statistics: A Step by Step Approach, Bluman, ISBN: 9781265248123	
70	Employee Engagement in Corporate Social Responsibility, Haski, ISBN: 9781526496508	
71	Engineering Intelligent Systems, Brown, ISBN: 9781119665595	
72	Enterprise AI for Dummies, Jarvinen, ISBN: 9781119696292	
73	Environmental and Society, Robbins, ISBN: 9781119408239	

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74	Environmental Ethics, Boylan, ISBN: 9781119635062	
75	Essential Economics for Cambridge IGSE & Level 3rd. Ed, Dramsfield, ISBN: 9780198424895	
76	Essentials of Biotechnology: World Ed., 3g Learning, ISBN: 9781984680624	
77	Essentials of Semiconductor Device Physics, Martins, ISBN: 9781119884118	
78	Essentials of Strength Training and Conditioning, 3g Learning, ISBN: 9781984672797	
79	Essentials of Youth Fitness, 3g Learning, ISBN: 9781984672834	
80	Evaluating Research: Methodology for People Who Need to Read Research, Dane, ISBN: 9781544396439	
81	Excel VBA Programming for Dummies, Kusleika, ISBN: 9781119843078	
82	Experimental Designs, Ariel, ISBN: 9781526426628	
83	Experimental Evaluation Design for Program Improvement, Peck, ISBN: 9781506390055	
84	Exploration of Computer Graphics, Kuzmiakova, 2023, ISBN: 9781774694435	
85	Exploring EntrePreneurship, Blundel, ISBN: 9781529733716	
86	Fast Circuit Boards, Morrison, 2018, ISBN: 9781119413905	
87	Financial Accounting Theory and Analysis, Schroeder, ISBN: 9781119881223	
88	Financial Accounting with International Financial Reporting Standards, Kimmel, ISBN: 9781119787051	
89	Fitness & Health Fundamentals, 3g Learning, ISBN: 9781984658487	
90	Fundamentals of Athletic Training, 3g Learning, ISBN: 9781984672865	
91	Fundamentals of Web Technology, Yadav, ISBN: 9781774691892	
92	Fuzzy Logic A Practical Approach, Lopez, 2023, ISBN: 9781647263256	
93	Gender and Communication, Vardhan, 2023, ISBN: 9789392333842	
94	Geometry A Comprehensive Course, Marks, 2023, ISBN: 9781641722193	
95	Global Climate Change and Human Life, Khailil, ISBN: 9780470665787	
96	Go Live!: Turn Virtual Connections into Paying Customers, Gitomer, ISBN: 9781119647133	
97	Graphs and Networks, Kingan, ISBN: 9781118937181	

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98	Great Myths of Personality, Donnellan, ISBN: 9781118521359	
99	How to Present the Ultimate Guide to Presenting Live and Online, Bowden, ISBN: 9781119912354	
100	Hybrid Algorithms, Techniques and Implementations of Fuzzy Logic, Stanimirovic, 2019, ISBN: 9781773613796	
101	Illustrated Handbook of Digital Games, 3g Learning, ISBN: 9781984660213	
102	Illustrated Handbook of High-Speed Networks, 3g Learning, ISBN: 9781984681263	
103	Illustrated Handbook of Software Design, 3g Learning, ISBN: 9781984660220	
104	Illustrated Handbook of Statistical Quality Control, 3g Learning, ISBN: 9781984681249	
105	Image and Sound Processing for Social Media, Pal, 2023, ISBN: 9781774694497	
106	Implementing Automated Software Testing, Kaul, 2023, ISBN: 9781774694039	
107	Information and Coding Theory in Computer Science, Gacovski, ISBN: 9781774694466	
108	Information Technology Service Management, 3G E Learning, 2023, ISBN: 9781984679673	
109	Information Technology Project Management, 3G E Learning, 2023, ISBN: 9781984679666	
110	Innovation Project Management, Kerzner, ISBN: 9781119931249	
111	Instrumentation and Control 2nd ed., 3g Learning, ISBN: 9781984659316	
112	Intercultural Communication, 3g Learning, ISBN: 9781984658463	
113	Intercultural Communication in Contexts 8th ed., Martin, ISBN: 9781265905729	
114	Internet Search Engines and Libraries by Agadi, ISBN: 9781774694923	
115	Interpersonal Skills in Organization 7th ed., de Janas, ISBN: 9781264554614	
116	Introduction to Adapted Physical Exercises and Sports, 3g Learning, ISBN: 9781984679277	
117	Introduction to Engineering Technology: World ed. 2nd ed., 3g Learning, ISBN: 9781984680709	
118	Introduction to Information Systems Supporting and Transforming Businesss, Rainer, ISBN: 9781119859932	
119	Introduction to Logistics Systems Management, Ghiani, ISBN: 9781119789390	

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120	Introduction to Physical Education, Fitness, and Sports, 3g Learning, ISBN: 9781984659255	
121	Introduction to R Programming Language, Nady, ISBN: 9781774690390	
122	Introduction to Virtual Reality, De Luna, 2022, ISBN: 9781774691410	
123	Java All-In-One for Dummies, Lowe, ISBN: 9781119986645	
124	Key Dynamics in Computer Programming, Kuzmiakova, 2023, ISBN: 9781774694381	
125	Make Your Brand Matter: Experience-Driven Solutions to Capture Customers and Keep Them Loyal, Soechtig, ISBN: 9781119860341	
126	Mechatronics Technology 2nd ed., 3g learning, ISBN: 9781984679970	
127	Net Zero Business Models, Montgomery, ISBN: 9781119895060	
128	Network Coding, Kuzmiakova, 2022, ISBN: 9781774691069	
129	Operating Al Bridging the Gap Between Technology and Business, Jagare, ISBN: 9781119833192	
130	Oral Communication, 3G E Learning, 2023, ISBN: 9781984680419	
131	Performance Evaluation of Cloud Services, Pehcevski, 2019, ISBN: 9781773615066	
132	Personal Development for Smart People, Hill, ISBN: 9798888361238	
133	Personal Development, 3G E Learning, 2023, ISBN: 9781984680457	
134	Physical Education and Health, 3g Learning, ISBN: 9781984680440	
135	Principles of Auditing & Other Assurance Service, Whittingston, ISBN: 9781260598087	
136	Product Development: An Engineers Guide to Business Consideration, Real-Worl Product Testing and Laynch, Tennant, ISBN: 9781119780137	
137	Professional Practice for Interior Designers, Piotrowski, ISBN: 9781119540076	
138	Programming Language, Gacovski, 2023, ISBN: 9781774694473	
139	Programming Logic and Design, 3G E Learning, 2023, ISBN: 9781984680143	
140	Project and Programme Management, 3G E Learning, 2020, ISBN: 9781984636829	
141	Project and Programme Management, 3G E Learning, 2023, ISBN: 9781984679628	

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142	Project Management Case Studies 6th ed., Kerzner, ISBN: 9781119821991	
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144	Qualitative Data Collection Tools, Design, Development and Applications, Billups, ISBN: 9781544334820	
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148	Second Language Pronunciation: Bridging the Gap Between Research and Teaching, Levis, ISBN: 9781119801528	
149	Secure Data Mining, Padallan, 2022, ISBN: 9781774691038	
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152	Social Capital and Business Management, Warne, 2023, ISBN: 9781774694206	
153	Social Inequality, Booth, ISBN: 9781529768510	
154	Social Media Mobile Marketing, Singh, ISBN: 9781774693995	
155	Software Testing and User Experience, 3G E Learning, 2023, ISBN: 9781984679604	
156	SQL Server Database Programming with Visual Basic .NET Concepts, Design and Implementation, Bai, ISBN: 9781119608509	
157	Stand up and be Heard, Gievel, ISBN: 9781526463616	
158	Statistics and Probability, 3G E Learning, 2023, ISBN: 9781984680365	
159	Stop Talking Start Doing, Wasmund, ISBN: 9780857089267	
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161	Strategic Planning and Policy, 3G E Learning, 2023, ISBN: 9781984680099	
162	Survey Research and Sampling, Eichhorn, ISBN: 9781526423801	
163	Sustaining and Enhancing the Scholarly Communications Department, Helge, 2020, ISBN: 9781440866999	
164	Systems Engineering Neural Networks, Migliaccio, ISBN: 9781119901990	

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165	The 6 Disciplines of Agile Marketing, Ewel, ISBN: 9781119712039	
166	The Craft of Qualitative Longitudinal Research, Neale, ISBN: 9781473995444	
167	The Mixed Methods Research Workbook: Activities for Designing Implementing and Publishing Projects by Fetters, ISBN: 9781506393599	
168	The Personal Credo Journal. Loehr, ISBN: 9781119781646	
169	The Technology Doesn't Matter, Lockett, ISBN: 9781394182282	
170	The Ultimate Career Guide Graphic Designing, Hunt, 2023, ISBN: 9798888361368	
171	Theory, Practice, and Techniques in Algorithms, 3G E Learning, 2018, ISBN: 9781680949001	
172	Topology, 3G E Learning, 2023, ISBN: 9781984679932	
173	Understanding Digital Societies, Perriam, ISBN: 9781529732573	
174	Up Bottom The From Security Blockchain, Poston III, ISBN: 9781119896296	
175	User Experience Design: A Practical Playbook to Fuel Business Growth, Kantamreni, ISBN: 9781119829201	
176	User Tested: How the Worlds Top Companies use Human Insight to Create Great Experiences, Estes, ISBN: 9781119844631	
177	Virtual Reality Theory and Practice, Oliver, 2023, ISBN: 9781639896868	
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179	Visualizing Google Cloud, Vergadia, ISBN: 9781119816324	
180	Warren Buffet: Inside the Ultimate Money Mind, Hagstrom, ISBN: 9781394168446	
181	Web Engineering, 3g Learning, ISBN: 9781984679758	
182	Web Engineering Handbook, Downey, 2023, ISBN: 9781647284381	
183	What Do We Know and What Should We Do About …? AI, Luger, ISBN: 9781529600278	
184	What do we Know and What Should We do about Fake News, Anstead, ISBN: 9781529717884	
185	What do we Know and What Should We do About…? Social Mobility, Major, ISBN: 9781529732030	
186	What Every Engineer Should Know About the Internet of Things, De Franco, 2022, ISBN: 9780367858780	
187	Wireless Security Architecture Designing and Maintaining Secure Wireless for Enterprise, Minella, ISBN: 9781119883050	

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188	Writing & Representing Qualitative Research, Lahman, ISBN: 9781544348483	
189	Yoga for Personality Development, Arora, 2023, ISBN: 9789395791052	
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