

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) 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
		<p>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 Bidders 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 provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii).</p>
One Lot (1) Electrical Supplies – P 1,226,020.00		
1	2 Gang switch 16 amp flush type Wide series	
2	3 Gang switch 16 amp flush type Wide series	
3	Adjustable wrench 12"/ 300mm	
4	Adjustable wrench 6"/ 150mm	
5	Carriage Bolt w/locknut and washer 10mmx1"	
6	C-clamp 1/2" double screw	
7	Circuit Breaker 30 Amp 2P Bolt-On	
8	Circuit Breaker 30 Amp 2P Plug-in	
9	Circuit Breaker 30A/ 3 Pole Bolt on with enclosure Dinrail	
10	Circuit Breaker 40 Amp 3P Bolt-On	
11	Circuit Breaker 40 Amp/ 2pole Bolt-On Dinrail	
12	Circuit Breaker 60 Amp 2P Bolt-On	
13	CO2 Efx liquid (5 liters/gallon)	

14	Current Transformer 200A	
15	Diagonal Plier 8" Heavy Duty	
16	Electric Rope Hoist, Load capacity 3000kg, Speed 2,800 r/min. 220vac	
17	Electric Rope Hoist, Load capacity 990/550kg, Height 6/12 mtrs, Speed 2,800 r/min. 220vac/60hHz, 1,600W	
18	Electrical Contact Cleaner 400ml	
19	Electrical Plier 8" Heavy Duty	
20	Energy Saving lamp 35w 4U (CFL) daylight	
21	Flat Screw Driver 12"	
22	Fog Liquid 5 ltrs/ gal.(for Fog Machine)	
23	Fuse Link High tension 12K	
24	Guy grip 3/8" or 5/8"	
25	Knapsack sprayer Noozle only	
26	LED bulb 12.5 Watts Daylight	
27	LED straight tube 20W Daylight 4th Generation	
28	LED street lamp 50W Daylight 4th Generation	
29	Low Lying Fog DF 3000 with Remote, Ice cube or Dry Ice 40,000CFT/ min 100m area	
30	Magnetic Contactor w/ Overload relay 2 Hp/ 2P	
31	Magnetic Contactor w/ Overload relay 3 Hp/ 2P	
32	Magnetic Contactor w/ overload relay 3 Tons/ 3P	
33	Magnetic Contactor w/ overload relay 7.5 Tons 3P	
34	Magnetic Contactor with overload relay 4 Hp / 3P	
35	Mini Circuit Breaker 30 Amp 2P Dinrail w/ enclosure	
36	Molded Case Circuit breaker 1000A/ 3 phase 230 VAC with enclosure and Accessories	
37	Panel board Led Pilot light Red & Green 220VAC/DC	
38	Penetrating oil 400ml	
39	Phenolic Board 3/4" X 4' X 8'	
40	Photo Control switch 10A/ 220 VAC	
41	PVC molding 1"X 1" X 10"	
42	PVC molding 1"X 1/2" X 10"	
43	PVC pipe 1/2" (electrical)	
44	RGBW PAR 64 LED, 3 watts	
45	Secondary Rack 3P Heavy Duty Hot Dip Galvanized	
46	Single switch 16 amp flush type Wide series	
47	Slotted Angular 2" x 2" x 8"	
48	Solderless connector 350-500mcm 2 bolt	
49	Star Screw Driver 12"	
50	T5 Fluorescent lamp 28 watts Daylight	
51	THHN/ THWN wire # 8.0 (black-3, blue-3 & red-3)	
52	THHN/THWN wire # 2.0 mm	
53	THHN/THWN wire # 3.5	
54	THHN/THWN wire # 5.5 (black-3, blue-3 & red-3)	
55	Twist-lock receptacle single 3 prong 30A/250VAC Flush Type	
56	Universal Convenience Outlet flush type 2 gang 20A wide series	
57	V-belt A-38, 16/20 for pressure washer	
58	Vinyl Electrical Tape 1710	