



**Annex B: Scope of Works**

**Name of Project: UPGRADING OF RADIO AND SERVER ROOM OF RIZAL CAMPUS, ICT  
 COMPUTER AND SPEECH LABORATORY OF ALL CAMPUSES**

ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
B.7	<b>OCCUPATIONAL SAFETY AND HEALTH PROGRAM</b>	1.00	lumpsum	-covers safety personal protective equipment to be used during the construction until the project is done  Materials are as follows: safety gloves safety shoes safety helmets caution tape, 3" x 300m First Aid Kit
801(6)	<b>REMOVAL OF STRUCTURES AND OBSTRUCTION</b>	1.00	lumpsum	-covers the removal of existing ceiling at Radio Room, removing of door knobs of computer laboratories Equipment: Minor Tools (10% of Labor) Power tools <b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b>
1004(2)	<b>FINISHING HARDWARE (LOCKSET)</b>	1.00	lumpsum	-covers the replacement of door knobs specified in the plan Equipment: Minor Tools (10% of Labor) Power tools Materials are as follows: 4 Latch Main Door Knobs-Lever Type Lockset Heavy duty floor bolt <b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b>
1012(2)	<b>GLASS AND GLAZING</b>	1.00	Lumpsum	- replacement of broken window glasses at Radio Room Equipment: Minor Tools (10% of Labor) Materials are as follows: Clear Glass- (.43m x .28m),(.23m x .26m) Silicon Gun Silicon Tube <b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b>
1030(1)	<b>ACOUSTICAL CEILING PANEL</b>	21.20	sq.m	- covers the replacement of ceiling at Radio Room Equipment: Minor Tools (10% Labor) H-frame/GI Pipe Scaffolds Power Tools Materials are as follows: Acoustic Ceiling Board(English System)- Fine Fissured 2'X4'x 9mm T-runners 28mm x 24mm x 4ft Cross Tees 28mm x 24mm x 4ft Wall Angle/Channel 24mm x 24mm x 0.5mm THK x 3m Main Tee 38mm x 24mm x 12ft Grid Hook set 12in. Blind Rivet x 20mm



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1031(1)c	<b>ACOUSTIC PANEL</b>	39.97	sq.m	- covers the soundproofing of Radio Room Equipment: Minor tools (10% of labor) Materials are as follows: Polyester Fiber Acoustic Panel ( verify color and design)- 9mm thick x 4ft x 8ft Liquid Nail Heavy Duty Adhesive <b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b>
1100	<b>ELECTRICAL</b>	1.00	lumpsum	- covers all Comp. Lab and Speech lab in all campuses Equipment: Minor Tools (10% of Labor) Materials are as follows: Rizal Campus- Server Room Rectangular Moulding (PVC/uPVC) - 30mm x 25mm x 2.44m PVC/uPVC Square box Surface Mounted PVC/uPVC Utility Box (white) Special Purpose Outlet Duplex Convenience Outlet 5.5mm <sup>2</sup> THHN Cu wire stranded 3.5mm <sup>2</sup> THHN Cu wire stranded  LED Ultrabright Emergency Light 2x15W SMD LED, 2600 lumens 6V 4.5Ah Lead-Acid Battery, 220-240VAC 50/60Hz  Electrical tape (0.16mmx19mmx16m) Multi- Purpose Construction Adhesive 320g Concrete screw w/ toks Computer Lab: 2x40 Louver Housing Surface Mount 12"x48" 300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40  Bulanao Campus- CCJE: 2x40 Louver Housing Surface Mount 12"x48" 300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40  Bulanao Campus- CoEd: Computer Lab: 2x40 Louver Housing Surface Mount 12"x48" 300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40 Speech Lab: 2x40 Louver Housing Surface Mount 12"x48" 300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40  Dagupan Campus- CLASS Bldg.: Computer Lab: 2x40 Louver Housing Surface Mount 12"x48" 300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40



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				<p>Speech Lab:          2x40 Louver Housing Surface Mount 12"x48"          300x1200mm, 2 pcs 1200mm T8 Tube Lights 1800          Lm, Metal Sheet Housing, Mirrorized Reflector, G13,          Surface Mount, Double End, IP 40</p> <hr/> <p>Rectangular Moulding (PVC/uPVC) - 30mm x          25mm x 2.44m          PVC/uPVC Square box          Mica tubing</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and          Verifications</b></p>
1100(30)	Conduits, Boxes and Fittings	1.00	lumpsum	<p>-Includes the rectification electrical roughing ins for          Lighting, Power, Feeders, Ventilation and Grounding          systems</p> <p>Equipment:          Minor tools</p> <p>Materials are as follows:          ICT Office:          Power:          Rectangular PVC Moulding 25mm X 16mm X          2.44m          PVC/uPVC Surface Type Utility Box (white)          Flexible Conduit 25mm dia. (orange)          c1          PVC/uPVC Surface Type Utility Box (white)          c2          PVC/uPVC Surface Type Utility Box (white)          c3          PVC/uPVC Surface Type Utility Box (white)</p> <p>Acoustics Room:          Service Entrance:          Polyvinyl Chloride Pipes (PVC/uPVC) - 32mm          dia x 3m          Service Entrance Cap 32mm dia.          Adaptor w/ Locknut (PVC/uPVC) - 32mm dia</p> <p>PVC/uPVC long elbow - 32mm dia</p> <p>Lighting:          Flexible Conduits (PVC/uPVC) - 20mm dia.          100m          PVC/uPVC Junction box          PVC/uPVC Surface Utility Box (white)          Rectangular Moulding (PVC/uPVC) - 30mm x          25mm x 2.44m          Power:          Rectangular Moulding (PVC/uPVC) - 30mm x          25mm x 2.44m          PVC/uPVC Surface Utility Box (white)</p> <p>ACU/SPO:          Rectangular Moulding (PVC/uPVC) - 30mm x          25mm x 2.44m          PVC/uPVC Surface Utility Box (white)</p> <p>Consumables:          Electrical tape (0.16mmx19mmx16m)</p> <p>Rubber Tape 0.8x19mmx8m          Concrete screw with toks          Silicone Sealant white 300ml</p>



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1101(42)	<b>WIRES AND WIRING DEVICES</b>	1.00	lumpsum	<p>-Includes the rectification electrical lines for Lighting, Power, Feeders, Ventilation and Grounding systems</p> <p>Equipment:            Minor tools</p> <p>Materials are as follows:            ICT:            Power</p> <p style="padding-left: 40px;">5.5mm<sup>2</sup> THHN Cu wire stranded            3.5mm<sup>2</sup> THHN Cu wire stranded            Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p> <p>c1</p> <p style="padding-left: 40px;">Duplex Convenience Outlets/Receptacles, 3prong (grounding type)            3.5mm<sup>2</sup> THHN Cu wire stranded            cable clip            cable tie            mica tubing</p> <p>c2</p> <p style="padding-left: 40px;">Duplex Convenience Outlets/Receptacles, 3prong (grounding type)            3.5mm<sup>2</sup> THHN Cu wire stranded            cable clip            cable tie            mica tubing</p> <p>c3</p> <p style="padding-left: 40px;">Duplex Convenience Outlets/Receptacles, 3prong (grounding type)            3.5mm<sup>2</sup> THHN Cu wire stranded            cable clip            cable tie            mica tubing</p> <p style="padding-left: 40px;">Electrical tape (0.16mmx19mmx16m)            Rubber tape (0.16mmx19mmx8m)            No more nails all purpose construction adhesive 100g            Black Cable tie 4.8x250mm (100pcs)            Round Head Metal Screw with washers 25mm (100pcs)            Toks with stainless screw 1/2" (100pcs)            USB3.0 VGA HDMI Wall socket VGA USB 3.0 HDMI Wall Plug HDMI Usb VGA Wall Plate panel board HDMI VGA            PVC/uPVC Surface Type Utility Box (white)            VGA Cable to Male VGA Cable HD Project 3 + 6 1920*1080P VGA laptop monitor projector VGA CABLE 8m            USB3.0 VGA HDMI Cable VGA USB 3.0 HDMI Cable HDMI Usb VGA Wall Plate panel board HDMI VGA 8m            Rectangular PVC Moulding 40mm X 40mm X 2.44m</p> <p>Acoustics Room:            Lighting:            3.5mm<sup>2</sup> THHN Cu wire stranded            Duplex (2 Single Pole Wall Switches on one switch plate)            Triplex (3 Single Pole Wall Switches on one switch plate)</p>



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				<p>Power:          3.5mm<sup>2</sup> THHN Cu wire stranded          2.0mm<sup>2</sup> THHN Cu wire stranded green (Gnd)</p> <p>Duplex Convenience Outlets/Receptacles,          3prong (grounding type)          ACU:          5.5mm<sup>2</sup> THHN Cu wire stranded          2.0mm<sup>2</sup> THHN Cu wire stranded green (Gnd)</p> <p>Special Purpose Outlet/Receptacle (Heavy          Duty)          Service Drop Wires:          No.4 awg Al          Secondary rack two spool assembly with          spool          Split Bolt Connector</p> <p>Wireless Smoke Detector Smoke Sensor Fire          Detector Home Fire Alarm Long Battery White Color</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b></p>
1103	LIGHTING FIXTURES	1.00	lumpsum	<p>-Includes all installation for Lighting fixture for indoor/outdoor applications specified in plans          Equipment:          Minor tools          Materials are as follows:  <b>Acoustics Room:</b>          2x40 Louver Housing Surface Mount 12"x48"          300x1200mm Metal Sheet Housing, Mirrorized Reflector, Surface Mount, Double End w/ 2- T8 LED tube 1200mm, 21W, 2100 Lm each, 230v, 60Hz Daylight.</p> <p>Twin Head Emergency Light, 2 x 5 Watts,          Two fully adjustable glare-free round shape light heads, Electro galvanized steel with epoxy powder coating, AC 220V – 265V 50/60 Hz, High Brightness LED COB, IP 40          Architectural Light LED Multiple Downlight 30W @ 10W each, 600 lm, Daylight, Aluminum Housing + PC Lens, 315 x 130 mm x 70mm H, White, recessed</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b></p> <p><b>Note: All materials must be approved by the Architect/Infra personnel before installation.</b></p>
1108(1)	DOOR ACCESS AND CARD READER SYSTEM	1.00	lumpsum	<p>- covers the replacing of removed door knobs          Equipment:          (Equipment cost for these items are to be considered/included in the installation of Access Control Terminal and other materials.)</p> <p>Materials are as follows:          Access Control Terminal          Note: Verify for Design and Type at ICT</p>



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1200	<b>AIR CONDITIONING AND VENTILATING SYSTEM</b>	1.00	lumpsum	<p>-Covers the installation of VAC system specified in plans.</p> <p>Equipment: Minor tools</p> <p>Materials are as follows: Window type ACU, Inverter, 1Hp 30AT 2P circuit breaker NEMA 3R panel box 3TR STAND TYPE AIRCON Technical Specifications -R410A Refrigerant, LED Display, Self Diagnosis, Lock Function, Stylish, Sleep Mode,</p> <p>Auto Swing, Remote Control, Auto-restart, Slim Type Cooling Capacity= 40090(10033-44099) kj/h(Min-Max) Power Supply= 230/60/1 V/Hz/Ph Rated Power= 3100 W Rated Current= 16.2 A EER 12.9 Kj/hW</p> <p>Note: Includes Installation</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b></p>
1202(24)a3	<b>FIRE EXTINGUISHER (10lbs, CO2/HCFC123 with bracket)</b>	14.00	set	<p>-covers the installation of fire extinguisher specified in the plan</p> <p>Equipment: Minor tools</p> <p>Materials are as follows: "Fire extinguisher, 10lbs, CO2/HCFC123 with bracket "</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b></p>
SPL-I	<b>MISCELLANEOUS WORKS</b>	1.00	lumpsum	<p>Materials are as follows: Universal Projector Bracket Ceiling Mount: Aluminum/Steel, Tilt range: ±15°, Swivel range: ±15°, 360° rotation, Adjustable length with cable management. Durable Sound Acoustic Carpet Black Noise Insulation Mat (50cm x 50cm x 2cm) Soundproof Flexible Door Bottom Sealing Strip Dustproof Weatherstrip Guard Stop 10M D/E/P/I Type Self Adhesive Window Door Seal Strip Foam Draught Excluder Dustproof Noise Insulation Anti Collision Tape -please refer to the KSU infra Architect for the design &amp; Specification</p> <p><b>Note: Refer to ICT/ INFRA Personnel for Inquiries and Verifications</b></p>
<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. ALL EQUIPMENTS INCLUDED IN THE PROGRAM MUST BE USED DURING SITE CONSTRUCTION.</li> <li>2. ALL MATERIALS MUST BE APPROVED/CHECKED BY THE INFRA PERSONNEL BEFORE INSTALLATION.</li> <li>3. PLEASE REFER TO THE PLAN FOR OTHER SPECIFICATIONS.</li> </ol>				