**LOT 4: Supply of Tools and Equipment for Electrical, Automobile, and Machine tool Workshops at the Integrated Polytechnic Regional College (IPRC) Kigali.**

*Bidders are expected to examine carefully and comply with all instructions and specifications.*

**Date: \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_**

**Bidder Information**

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| Bidder’s Legal Name |  | | | | |  |
|  | | | | | | |
| TIN Number |  | | | | |  |
|  |  | | | | |  |
| Country/ies of Registration/Operation |  | | | | |  |
| |  | | --- | |  |   Bidder’s Authorized Representative | | | | | | |
|  |  | |  | |  |  |
| Title |  | | Telephone | |  |  |
|  | | | | | | |
| Email |  | | | | |  |
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**Descriptions and Specifications of required Tools for Electrical and Automobile Workshops to be supplied to IPRC Kigali.**

| **No.** | **Item Description** | **Item Specifications** | **Units** | **Quantity** | **Unit Price (Frw)** | **Total Price (Frw)** |
| --- | --- | --- | --- | --- | --- | --- |
| **a)** **Machine Tools workshop** | | | | | | |
|  | Hacksaw Flame | Type: Hacksaw  Shape: Chain Saw  Material: Steel  Processing Method: Transverse Saw  Size: Common | Pc | 10 |  |  |
|  | Metric Taps and Die | 53-pc set in plastic case includes the following items: Metric Plug Tap and 1" Hexagon Dies in sizes: 3mm - 0.50,  4mm - 0.70, 4mm - 0.75, 5mm - 0.80, 5mm - 0.90, 6mm - 1.00, 7mm - 1.00, 8mm - 1.25, 9mm - 1.00, 9mm - 1.25,  10mm - 1.25, 10mm - 1.50, 11mm - 1.50, 12mm - 1.50, 12mm - 1.75 Metric Plug Tap and 1-7/16" Hexagon Dies in  sizes: 14mm - 2.00, 16mm - 1.50, 16mm - 2.00, 18mm - 1.50, 18mm - 2.50 Pipe Thread Plug Tap and 1" Hexagon  Dies in sizes: 1/8" - 28 BSP, 1/4" - 19 BSP Threading Tools: Adjustable Die Stock - 1" Dies, Adjustable Die Stock -  Hexagon Dies, T-Handle Wrench - Taps No. 0 to 1/4", T-Handle Wrench - Taps No. 0 to 1/2", Adj. Handle Tap  Wrench - Taps No. 1/4" to 1", 16 Leaf Metric Thread Pitch Gauge, Empty Plastic Case | Box | 2 |  |  |
|  | Inch Taps and Die | 53-pc set in plastic case includes the following items: Machine Screw Plug Tap and 1 " Hexagon Die in sizes: 6 - 32  NC, 8 - 32 NC, 10 - 24 NC, 10 - 32 NF, 12 - 24 NC Fractional Plug Tap and 1" Hexagon Dies in sizes: 1/4" - 20 NC,  1/4" - 28 NF, 5/16" - 18 NC, 5/16" - 24 NF, 3/8" - 16 NC, 3/8" - 24 NF, 7/16" - 14 NC, 7/16" - 20 NF, 1/2" - 13 NC, 1/2"  - 20 NF Fractional Plug Tap and 1-7/16" Hexagon Dies in sizes: 9/16" - 12 NC, 9/16" - 18 NF, 5/8" - 11 NC, 5/8" - 18  NF, 3/4" - 10 NC, 3/4" - 16 NF Pipe Thread Plug Tap and 1" Hexagon Dies in sizes: 1/8" - 27 NPT, 1/4" - 18 NPT  Threading Tools: Adjustable Die Stock - 1" Dies, Adjustable Die Stock - 1-7/16" Dies, T-Handle Wrench - Taps No. 0  to 1/4", Adj. Handle Tap Wrench - Taps No. 0 to 1/2", Adj. Handle Tap Wrench - Taps No. 1/4" to 1", 18 Leaf  Standard Thread Pitch Gauge | Box | 2 |  |  |
|  | Counterboring Tools | |  |  | | --- | --- | | Size: 8-12 mm  Type: Straight Shank  Material: Stainless Steel, High Speed Steel  Length (mm): 30-60 mm | 8-10 mm | | Set | 2 |  |  |
|  | Countersinking | Size: 8-12 mm  Type: Straight Shank  Material: Stainless Steel, High Speed Steel  Length (mm): 30-60 mm | Set | 2 |  |  |
|  | Pulley extractor | 3pc 2Leg Jaw Reversible Gear Hub Bearing Puller Pulley Removal Tool Set 3" 4" 6" - Code Auto Tool and Restoration Supply | Pc | 2 |  |  |
|  | Hand Drilling Machine | Bosch  Rated Power: 720W No load Speed: 0-1200 rpm Rated Imp: 40,000 ipm Net Weight: 2.93 kg | Set | 2 |  |  |
|  | Angle grinder | |  |  | | --- | --- | | Bosch  Rated input power | 670 W | | No-load speed | 12,000 rpm | | Disc diameter | 100 mm | | Grinding spindle thread | M10 | | Tool dimensions (width) | 77 mm | | Tool dimensions (length) | 263 mm | | Tool dimensions (height) | 104 mm | | Weight | 1.8 kg | | Set | 2 |  |  |
|  | Bearing OD=100, ID=40 | OD=100, ID=40 | Pc | 24 |  |  |
|  | Bearing Block | ID=40 | Pc | 24 |  |  |
|  | Combination Sets | Square head: Used to set the rule at 90 degrees or 45 degrees to an edge of a workpiece. Center head: Used to locate centers of round workpieces. Protractor head: Used to set the rule at a desired angle to an edge of a workpiece. Also used for measuring angles. | Pc | 10 |  |  |
|  | Vernier Caliper | 150 mm Mitutoyo | Pc | 25 |  |  |
|  | Micrometer | 0-25 mm Mitutoyo | Pc | 6 |  |  |
|  | Micrometer | 25-50 mm Mitutoyo | Pc | 6 |  |  |
|  | Drill Bits | Sizes included Ø - 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13 mm  Point Angle - 118° Standards - DIN 338 Bit Geometry - Standard Twist Bit | Box | 1 |  |  |
|  | HSS Cutting Tools | 20x20x200 | Pc | 10 |  |  |
|  | Insert Carbide Cutting Tools for Turning | Cutting Tools for Turning | Box | 1 |  |  |
|  | Insert Carbide Cutting Tools for Milling | Cutting Tools for Milling | Box | 1 |  |  |
|  | Power Hacksaw Blade | 750 mm | Pc | 1 |  |  |
|  | Lubricant Oil | SAE 40 | Liter | 30 |  |  |
|  | Mild Steel 2400x1200x2 | 2400x1200x2 | Pc | 4 |  |  |
|  | Mild Steel 2400x1200x6 | 2400x1200x6 | Pc | 1 |  |  |
|  | Electrode | Mild Steel  Dia 2.5 mm | Kg | 45 |  |  |
|  | Electrode | Mild Steel  Dia3.2 mm | Kg | 30 |  |  |
|  | Electrode | Stainless Steel  Dia 2.5 mm | Kg | 10 |  |  |
|  | S.S Electrode Dia 3.2 | Stainless Steel  Dia3.2 mm | Kg | 5 |  |  |
|  | Coolant | For Machining | Liter | 11 |  |  |
|  | Round Bar | Mild SteelDia 30 | m | 24 |  |  |
|  | Round Bar | Mild SteelDia50 | m | 6 |  |  |
|  | Hacksaw Blades | Wildskall 12” inch  High Speed 24 TPI  Hacksaw Blades Set  Pack of 8 | Box | 2 |  |  |
|  | Metal Tubes | Mild Steel  40x40x3x6000 | Pc | 5 |  |  |
|  | Metal Tubes | Mild Steel  60x40x3x6000 | Pc | 3 |  |  |
| **b) Operation and Maintenance of Industrial Processing Machines –** **Electrical Workshop** | | | | | | |
|  | Beta Tools 1150BM 220 | Combination Pliers Bright Chrome Plated Bi Material Handle | Pc | 25 |  |  |
|  | Screwdriver for Cross Head phillips | Beta Tools 1202 3 x 60 Screwdriver for Cross Head phillips Screws | Pc | 25 |  |  |
|  | Screwdriver for flat Head | Beta Tools 1202 3 x 60 Screwdriver for flat Head Screws | Pc | 25 |  |  |
|  | Screwdriver Set In Thermoformed Tray | Beta Tools 7pc Slotted & Phillips Screwdriver Set In Thermoformed Tray 2350MC220 | Pc | 25 |  |  |
|  | Diagonal Cuttings Nippers | Beta Tools 1082 Diagonal Cuttings Nippers 140mm | Pc | 25 |  |  |
|  | Wire Stripping Pliers | Beta Tools 1142BM 160 Wire Stripping Pliers Bi Material Handles | Pc | 25 |  |  |
|  | Combination pliers | Beta Tools 1142BM 160 Combination pliers Bi Material Handles | pc | 25 |  |  |
|  | Measuring tape | 5M | Pc | 25 |  |  |
|  | Single core cable 1.5mm2 | Red 100mts, Single core cable 1.5mm2 | Roll | 4 |  |  |
|  | Single core cable 1.5mm2 | Yellow 100mts, Single core cable 1.5mm2 | Roll | 4 |  |  |
|  | Single core cable 1.5mm2 | Black 100mts, Single core cable 1.5mm2 | Roll | 4 |  |  |
|  | Single core cable 1.5mm2 | Blue 100mts, Single core cable 1.5mm2 | Roll | 4 |  |  |
|  | 2.5mm2 single core cable | Different colors, Single core cable 2.5mm2 | Roll | 1 |  |  |
|  | Round flex cable | 4 core 2.5 mm2 | Roll | 1 |  |  |
|  | Timer relays | (ON delay relays 0-40 s) 220V 10A | Pc | 8 |  |  |
|  | Insulating tape | PVC insulation tape 19mm x 25m Waterproof and resistant to cold, moisture, oils, bases, acids and many other chemicals | Pc | 10 |  |  |
|  | Start/ stop push buttons for contactors | 16A, Push Button Station Switch Mayitr Remote Start Stop Motor Solenoid IP55 Button Box Double Insulated Momentary Switch | Pc | 20 |  |  |
|  | Thermal relays | 3-poles (3P) variable 1- 7 A trip current setting range - with 1NO+1NC aux. contacts - Screw-clamp connections with finger protection | Pc | 8 |  |  |
|  | Instant relays | 8 pins 16 A complete Baomain Power Relay MK2P-I AC 110V Coil DPDT 8 Pin with Plug-in Terminal Socket | Pc | 8 |  |  |
|  | Limit switches | T Travel switch Micro switch limit switch Adjustable roller Rotary arm type limit wheel piece 250V /5A | Pc | 5 |  |  |
|  | Pilot lamps 220V panel mount | Green, TYPE K Pilot Light, 30 mm, 208 to 220V AC Voltage, Lamp Type: LED, Terminal Connection: Screw Clamp | Pc | 8 |  |  |
|  | Pilot lamps 220V panel mount | Yellow, TYPE K Pilot Light, 30 mm, 208 to 220V AC Voltage, Lamp Type: LED, Terminal Connection: Screw Clamp | Pc | 8 |  |  |
|  | Pilot lamps 220V panel mount | Red, TYPE K Pilot Light, 30 mm, 208 to 220V AC Voltage, Lamp Type: LED, Terminal Connection: Screw Clamp | Pc | 8 |  |  |
|  | Pilot lamps 220V panel mount | Blue, TYPE K Pilot Light, 30 mm, 208 to 220V AC Voltage, Lamp Type: LED, Terminal Connection: Screw Clamp | Pc | 8 |  |  |
|  | Polyamide open type terminal blocks | 10 WAYS, KJ-TF-210 (20A-10P) 250 V (600V max) 3.5mm2 | Pc | 25 |  |  |
|  | PVC Cable clips | Cable Clips PVC Clamp ROUND 8MM | PKT | 10 |  |  |
|  | Contactors | AC Contactors CJX2 / LC1  25 A Schneider 220V coil. | Pc | 15 |  |  |
|  | Three pole MCB | Magnetothermal circuit breaker, 3P, 40A. | Pc | 8 |  |  |
|  | 22 mm two holes PVC box for Pilot lamps waterproof enclosure | IP65 waterproof control box with Red and green indicator light hole specing :22mm cover:White  bottom:Black, can be customized | Pc | 20 |  |  |
|  | Wooden screws | Self-drilling screw DIN 7504P countersunk head and PH recess drills 2 mm (Ø3,5) up to 6 mm (Ø6,3) | Box | 7 |  |  |
|  | 0.63mm Super enameled copper wire | 0.63mm enamelled copper wire - high temperature magnet wire | Kg | 10 |  |  |
|  | Air dry varnish | Air drying insulating varnish, liquid form; main raw material; epoxy applied in electric motors, fan…. Packed in bottles | L | 5 |  |  |
|  | Sleeve 4mm diameter 1meter length (Red, Black, and Blue) | Fiberglass Sleeve 4mm I.D. PVC Insulation Tubing 1500V Tube Adjustable Sleeving Pipe 125 Degree Centigrade Cable Wrap Wi | m | 5 |  |  |
|  | Sleeve 6mm diameter 1meter length (Red, Black and Blue) | Fiberglass Sleeve 6mm I.D. PVC Insulation Tubing 1500V Tube Adjustable Sleeving Pipe 125 Degree Centigrade Cable Wrap Wi | m | 5 |  |  |
|  | 4mm Insulation paper | Electric Motor Winding Materials MGM Flexible Foil Mylar Glass Fiber Insulation Paper | roll | 5 |  |  |
|  | 2mm Insulation paper | polyester film transformer insulation paper for motor winding | roll | 5 |  |  |
|  | Ply wood (60\*60 cm with a thickness of 1.5cm) | 5-ply boards Ply wood (60\*60 cm with a thickness of 1.5cm) | Pc | 12 |  |  |
|  | Binding rope | Stator coil lacing tapes cord and polyester to bind electric motor coils, white color, 1.6-2 mm diameter | Roll | 1 |  |  |
| **C) Operation and Maintenance of Industrial Processing Machines –** **Automobile Workshop** | | | | | | |
|  | Soldering Gun | 220V / 60W | Pc | 11 |  |  |
|  | Battery Booster: | BEATIT (Power Jump Starter QDSP 1500Amp Peak 12V | Pc | 2 |  |  |
|  | Pneumatic oil Extractor | Model: HC - 2090 | Pc | 1 |  |  |
|  | Lamp tester | 6V-24V Circuit tester | Pc | 10 |  |  |
|  | Electric Speed Adjustable Valve Grinding Machine | 150W -220V TS-88 | Pc | 1 |  |  |
|  | Engine oil Force | 1 - Diesel Engine Oil SAE 15W-40 | Liter | 30 |  |  |
|  | Engine oil | Gasoline engine oil - RYMAX / 20W50 | Liter | 30 |  |  |
|  | Battery Kit | Baterry: ATLAS 12V / 70AH | Pc | 2 |  |  |
|  | Electrical insulating tape (GLOBE) |  | Pc | 50 |  |  |
|  | Soap powder | Powder | Kg | 10 |  |  |
|  | Cleaning brush |  | Pcs | 20 |  |  |
|  | Automobile Cables (Rolls: Multi cores) |  | Roll | 2 |  |  |
|  | Soaps | Liquids for washing lab materials | Liter | 10 |  |  |
|  | Bolts and nut | Withworth threads: Various sizes: Diameter 6, 8, 10, 12, 14 | Pc | 300 |  |  |
|  | PU Polyurethane Flexible Air Tubing Pneumatic Pipe Tube Hose | 8mm x 6mm (50 meter long) | Roll | 2 |  |  |
|  | PU Polyurethane Flexible Air Tubing Pneumatic Pipe Tube Hose | 6mm x 4mm (50 meter long) | Roll | 2 |  |  |
|  | PU Polyurethane Flexible Air Tubing Pneumatic Pipe Tube Hose | 10 mm x 7.5mm (50 meter long) | Roll | 2 |  |  |
|  | Single core cable 1.5mm2 | Red 100mts/oman | Roll | 2 |  |  |
|  | Single core cable 1.5mm2 | Yellow 100mts/oman | Roll | 2 |  |  |
|  | Single core cable 1.5mm2 | Black 100mts/oman | Roll | 2 |  |  |
|  | Single core cable 1.5mm2 | Blue 100mts/oman | Roll | 2 |  |  |
|  | Inching switch panel mount (with red & blue push buttons) | 16A | Pc | 25 |  |  |

**NOTE:**

1. Kilimo Trust Rwanda, in a fair and transparent manner, will select companies that fulfill all requirements.
2. If necessary, interested bidders can visit the site any time before **28th February 2022**.
3. For items that need to be installed or assembled, the bidder should include installation and assembling cost in the bid.