## Schedule of Requirements

## Tender: INF P 1672/23

| S.No | Project Name | Location | Packages | Date and Time of Bid Opening |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Purchase of Equipment /tools/Furniture/Books for GPI Lakki Marwat | Lakki <br> Marwat | 1. Chemistry Lab <br> 2. Physics Lab <br> 3. Woodworking Workshop <br> 4. Plumbing \& Public Health Workshop <br> 5. Machinist <br> 6. Computer Lab | $16 / 08 / 2023$ <br> Bid Submission time: 10:30 am <br> Bid Opening Time: 11:30 am |
| 2 | Purchase of Equipment/tools /Furniture /Books for GPI Mansehra | Mansehra |  |  |
| 3 | Purchase of Equipment/tools/Furniture/Books for <br> GPI Alpuri Shangla | Shangla |  |  |
| 4 | Purchase of Equipment/tools/Furniture/Books for GPI Pattan Kohistan | Kohistan |  |  |

## *PLEASE ORGANIZE YOUR BID FOR THE PACKAGE AS FOLLOWS;

1) Bidder can bid ITEM-WISE against the Schedule of requirements.
2) The Items/Equipment must have Minimum Specification acceptable to the Technical Committee of KPTEVTA; however the higher specification may be accepted if within the financial limit.
3) All bidders must submit the relevant details of bid/proposals duly labelled by a permanent marker with the name of bidder and also to provide documents in soft copies (MS WORD format) on USB drive
4) The Supplier shall write in bold \& legible letters "Name of the Project \& Package" on the envelope.
5) The supplier will submit the tender documents properly Computer Typed and each page shall be endorsed and numbered, along with terms and condition issued by the KP-TEVTA, dully signed by the authorized personnel with company seal; otherwise the bid will not be accepted.
6) The prices, including all taxes, should be quoted item-wise in Pakistani Rupees so as to reach the premises of the KP-TEVTA Head Office.
7) After Sale service and supply of spare parts must be guaranteed for a period of One year.
8) Please list the Ernest Money of this package in the Ernest Money Letter Stamp Paper.
9) Bid Processing Fee is Rs. 3500/-.
10) The supplier will supply the items won as a result of bidding on FOR basis to GPI Mansehra, Kohistan, Shangla and Lakki Marwat.
11) National Manufacturers are eligible to bid/quote their manufactured items but Branded items with Country of Origin/OEM: USA, Europe, Turkey, Japan, Korea will be appreciated.
12) Brand of the quoted item(s) shall be exclusively mentioned.
13) After Sale service and supply of spare parts must be guaranteed for a period of One year.
14) The original Request for Proposal documents duly signed and officially sealed by the bidder must be submitted as a whole with the proposals. Any conditional, ambiguous, incomplete, supplementary, or revised offer after the opening of tender shall not be entertained.
15) Any overwriting/crossing, etc. appearing in the offer may be properly signed by the person signing the tender. All pages of the tender must be properly signed $\&$ stamped. Offer with any overwriting/use of Blanco shall not be accepted in any circumstances.
16) Offers should be valid for FY: 2023-24 from the date of opening of the Tender.
17) The successful bidder(s) shall get the equipment inspected at their premises workshop before its dispatch to the indicated Locations.

| 1 | CHEMISTRY \& PHYSICS LAB GLASS WARE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S\# | Items | Quantity <br> Required | Cost per item | Total Cost | Amount of CDR |
| 1. | Beaker 50 ml (Pyrex) | 24 No |  |  |  |
| 2. | Beaker 250 Ml (Pyrex) | 24 No |  |  |  |
| 3. | Beaker 500 ml (Pyrex) | 24 No |  |  |  |
| 4. | Beaker 1000 ml (Pyrex) | 12 No |  |  |  |
| 5. | Wash bottle (plastic) | 24 No |  |  |  |
| 6. | Bottle reagent 500ml (narrow mouth) | 16 Doz |  |  |  |
| 7. | Bottle reagent 250 ml (narrow mouth) | 24 doz |  |  |  |
| 8. | Bottle Reagent 500 ml (wide mouth) | 6 doz |  |  |  |
| 9. | Bottle Reagent 3 ltr | 24 No |  |  |  |
| 10. | Burette 50 ml | 24 No |  |  |  |
| 11. | Measuring cylinder 100 ml | 6 No |  |  |  |
| 12. | Measuring cylinder 10 ml | 12No |  |  |  |
| 13. | Crucible Porcelain with lid | 24 No |  |  |  |
| 14. | Cork rubber assorted | 6 doz |  |  |  |
| 15. | Fusion tube | 24 gross |  |  |  |
| 16. | Capillary tube | 10 lb |  |  |  |
| 17. | Centered Glass Crucible lid | 24 No |  |  |  |
| 18. | Borosilicate Glass | 24 No |  |  |  |
| 19. | Dish evaporating (Porcelain 75 | 15 No |  |  |  |
| 20. | Flask Round bottom 500 ml | 24 No |  |  |  |
| 21. | Flask Flat Bottom 3 ltr, | 10 No |  |  |  |
| 22. | Flask Conical 100 ml | 24 No |  |  |  |
| 23. | Flask Filtration 500 ml | 24 No |  |  |  |
| 24. | Funnel Buchner | 24 No |  |  |  |
| 25. | Funnel separating 250 ml | 24 No |  |  |  |
| 26. | Funnel | 24 No |  |  |  |
| 27. | Filter paper | 6 Pkt |  |  |  |
| 28. | Glass rods | 24 No |  |  |  |
| 29. | Kipps "s apparatus 1000 ml | 10No |  |  |  |
| 30. | Litmus paper blue and Red | 24 pkt |  |  |  |
| 31. | Pestle \& Mortar glass | 10 No |  |  |  |
| 32. | Tiles Glazed white | 24 No |  |  |  |
| 33. | Test tube holder | 4 gross |  |  |  |
| 34. | Trough Glass | 24 No |  |  |  |
| 35. | Burette. | 24 No |  |  |  |
| 36. | Suction pump glass | 24 No |  |  |  |
| 37. | Watch glass | 24 No |  |  |  |
| 38. | Ostwald Viscometer | 24 No |  |  |  |
| 39. | Stalagmometer | 12 No |  |  |  |

## CHEMISTRY LAB EQUIPMENT

| S\# | Items | Quantity Required | Unit Cost | Total Amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Electrolyzer $220 \mathrm{~V}, 50 \mathrm{HS}$ with platinum electrode and DC power supply. | 2 Nos |  |  |  |
| 2 | Filter paper (whatman No.1) . | 100 sheet |  |  |  |
| 3 | Glass funnel dia: 7.5 cm | 25 Nos |  |  |  |
| 4 | Glass tube: Soda lime length: 150 cm Ex-dia:3-4 mm | 25 Nos |  |  |  |
| 5 | Glass rods: (Stirring) Length: 20 cm , dia: 6-7 mm | 25 Nos |  |  |  |
| 6 | Pipette Graduated: 10 ml , | 50 Nos |  |  |  |
| 7 | Pipette 15 ml . | 50 Nos |  |  |  |
| 8 | Stand Tripod (cast iron) Height: 20 cm , with circular top, | 50 Nos |  |  |  |
| 9 | Spirit lamp. Metallic medium size. | 50 Nos |  |  |  |
| 10 | Test Tubes: Dimension: 150x12mm, Pyrex | 300 Nos |  |  |  |
| 11 | Test tube stand (wooden). | 25 Nos |  |  |  |
| 12 | Tongs (Black ended steel) with Bow length: 20 cms , /. | 25 Nos |  |  |  |
| 14 | Wire gauze, . | 50 Nos |  |  |  |
| 15 | Volumetric flask. 100 ml , | 12 Nos |  |  |  |
| 16 | Volumetric flask. 250 ml , | 12 Nos |  |  |  |
| 17 | Distillation plant: Stainless steel, 220 V, 300V, capacity: 1 gallon. . | 2 Nos |  |  |  |
| 18 | Periodic chart/ Periodic table | 2 Nos |  |  |  |
| 19 | Copper sulphate (anhydrous). | 0.5 kg |  |  |  |
| 20 | Potassium Nitrate | 0.5 kg |  |  |  |
| 21 | Ferrous sulphate | 0.5 kg |  |  |  |
| 22 | Calcium sulphate. | 0.5 kg |  |  |  |
| 23 | Soda Ash. | 0.5 kg |  |  |  |
| 24 | Sodium Bicarbonate. | 2 kg |  |  |  |
| 25 | Spirit Methylated. | 10 liter |  |  |  |
| 26 | Iron Stand with clamp. | 50 Nos |  |  |  |
| 27 | Wooden Stand. . | 50 Nos |  |  |  |

## CHEMICALS

| S\# | Items | Quantity <br> Required | Unit Cost | Total Amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Nitric Acid | 5 ltr |  |  |  |
| 2. | Hydrochloric Acid | 5 ltr |  |  |  |
| 3. | Sodium Hydroxide (Pellets) | 2 kg |  |  |  |
| 4. | Ammonia liquor | 5 ltr |  |  |  |
| 5. | Carbon Disulphide | 2 kg |  |  |  |
| 6. | Silver Nitrate | 250 gm |  |  |  |
| 7. | Ammonium carbonate | 1 kg |  |  |  |
| 8. | Sodium Carbonate/Washing soda | 1 kg |  |  |  |
| 9. | Sodium Nitrate | 1 kg |  |  |  |
| 10. | Sodium bicarbonate | 1 kg |  |  |  |
| 11. | Potassium carbonate | 1 kg |  |  |  |
| 12. | Potassium chloride | 1 kg |  |  |  |
| 13. | Potassium chromate | 1 kg |  |  |  |
| 14. | Potassium Dichromate | 1 kg |  |  |  |
| 15. | Potassium chlorate | 1 kg |  |  |  |
| 16. | Ammonium sulfide | 1 kg |  |  |  |
| 17. | Ammonium sulfate | 1 kg |  |  |  |
| 18. | Ammonium Molybdate | 1 kg |  |  |  |
| 19. | Bismuth Nitrate | 1 kg |  |  |  |
| 20. | Bismuth Chloride | 1 kg |  |  |  |
| 21. | Cadmium Nitrate | 1 kg |  |  |  |
| 22. | Cadmium chloride | 1 kg |  |  |  |
| 23. | Lead Nitrate | 1 kg |  |  |  |
| 24. | Lead Carbonate | 1 kg |  |  |  |
| 25. | Lead Acetate | 1 kg |  |  |  |
| 26. | Sodium Nitrogen per oxide | 1 kg |  |  |  |
| 27. | Sodium sulfite | 1 kg |  |  |  |
| 28. | Sodium sulfate | 1 kg |  |  |  |
| 29. | Sodium Thiosulfate | 1 kg |  |  |  |
| 30. | Sodium Chloride | 1 kg |  |  |  |
| 31. | Sodium chromate | 1 kg |  |  |  |
| 32. | Acetic acid (glacial) | 2.5 ltr |  |  |  |
| 33. | Oxalic Acid | 1 kg |  |  |  |
| 34. | Maleic Acid | 1 kg |  |  |  |
| 35. | Succinic Acid | 1 kg |  |  |  |
| 36. | Salicylic acid | 2.5 ltr |  |  |  |
| 37. | Ethylene glycol | 1 kg |  |  |  |
| 38. | Potassium permanganate | 1 kg |  |  |  |
| 39. | Glycerin | 1 kg |  |  |  |
| 40. | Acetone | 2. Itr |  |  |  |
| 41. | Chloroform | 2.5 ltr |  |  |  |



| 86. | Potassium lodate | 0.5 kg |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 87. | Starch | 0.5 kg |  |  |  |
| 88. | Buffer solution $\mathrm{pH}-7$ | 1 ltr |  |  |  |
| 89. | Buffer solution $\mathrm{pH}-4$ | 1ltr |  |  |  |
| 90. | Buffer solution pH-9/-10 | 11tr |  |  |  |
| 95 | Citric acid | 0.5 kg |  |  |  |
| 96 | Acid Acetic | 2.5 ltr |  |  |  |
| 97 | Acid Picric | 1 kg |  |  |  |
| 98 | Aniline | 1 kg |  |  |  |
| 99 | Ammonium Chloride | 1 kg |  |  |  |
| 100 | Ammonium Cyanate | 1 kg |  |  |  |
| 101 | Ammonium Phosphate | 1 kg |  |  |  |
| 102 | Ammonium Acetate | 1 kg |  |  |  |
| 103 | Aceto Phenone | 1 lb |  |  |  |
| 104 | Acid Cinnamic | 1 lb |  |  |  |
| 105 | Antimony Chloride | 1 lb |  |  |  |
| 106 | Barium Chloride | 1 kg |  |  |  |
| 107 | Barium Nitrate | 2 ltr |  |  |  |
| 108 | Bromine | 1 lb |  |  |  |
| 109 | Cadmium Bromide | 1 lb |  |  |  |
| 110 | Calcium Acetate | 1 lb |  |  |  |
| 111 | Calcium Carbonate | 1 lb |  |  |  |
| 112 | Calcium Chloride Anhydrous | 1 lb |  |  |  |
| 113 | Calcium Sulphate Anhydrous | 1 lb |  |  |  |
| 114 | Cobalt Sulphate | 1 lb |  |  |  |
| 115 | Copper Carbonate | 1 lb |  |  |  |
| 116 | Copper Nitrate | 2 lb |  |  |  |
| 117 | Chemical Label books | 2 doz |  |  |  |
| 118 | Dimethyl Amine | 10 kg |  |  |  |
| 119 | 2,4-Dintro Phenyl Hydrazine | 100 gm |  |  |  |
| 120 | Ferric Chloride | 2 lb |  |  |  |
| 121 | Ferrous Sulphate | 5 kg |  |  |  |
| 122 | Dextrose | 1 lb |  |  |  |
| 123 | Hydroxyl Amine Hydro Chloride | 10 gm |  |  |  |
| 124 | Magnesium Metal | 1 lb |  |  |  |
| 125 | Magnesium lodide | 1 kg |  |  |  |
| 126 | Mercuric Chloride | 250 gm |  |  |  |
| 127 | Nickel Chloride | 1 kg |  |  |  |
| 128 | Potassium Bromide | 1 lb |  |  |  |
| 129 | Potassium Ferricyanide | 1 lb |  |  |  |
| 130 | Potassium iodide | 1 lb |  |  |  |
| 131 | Potassium Nitrate | 1 lb |  |  |  |


| 132 | Potassium oxalate | 1 lb |  |  |
| :---: | :--- | :---: | :---: | :---: | :---: |
| 133 | Potassium Thiocyanate | 1 lb |  |  |
| 134 | Potassium Sulphate | 1 kg |  |  |
| 135 | Phenyl Hydrazine Hydrochloride | 1 lb |  |  |

## PHYSICS LABORATORY

| S.No | Description of Items with Specification | Qty. | Unite Rate | Total amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Resonance tube apparatus, length 1 meter: With Plastic tube $840 \times 25 \mathrm{~mm}$ mounted on record with 500 ml Plastic tube bulb. | 10 Nos |  |  |  |
| 2. | Sonometer with slotted weights and two wedges: <br> Wooden resonance box with two rules 1 m long. one each brassand steel wires.two moveable bridges pulley and fixed screws, slotted weights $1 / 2 \mathrm{~kg} \times 4,1 \mathrm{~kg} \times 4,2 \mathrm{~kg} \times 4$ | 10 Nos |  |  |  |
| 3. | Linear Expansion apparatus with metal rod and Accessories: <br> Apparatus added with speedometer, glass jacket <br> enclose Brass, Iron, Aluminum and a Copper rod within <br> Error scale having differently colored pointers. Accessories: Brass, Iron, Aluminum ,Copper rods | 10 <br> each <br> sets |  |  |  |
| 4. | Steam generator: <br> Aluminum vessel with cork lid and retainer on an adjustable hot plate with thermal circuit breaker, volume 250ml | 12 No |  |  |  |
| 5. | Sextant: <br> Student model, <br> Comprising 220 mm radius, withsighter adjustable half mirror and scale 0 to 130 with Vernier reading to five minimum in wooden case. | 10 Nos |  |  |  |
| 6. | Set of weights: <br> 13 pieces set of Brass weights in storage block. $\begin{aligned} & 1 \times 1 \mathrm{~g}, 2 \times 2 \mathrm{~g}, 1 \times 5 \mathrm{~g}, 1 \times 10 \mathrm{~g} .2 \times 20 \mathrm{~g}, 1 \times 50 \mathrm{~g}, 1 \times 100 \mathrm{~g}, \\ & 2 \times 200 \mathrm{~g}, 1 \times 500 \mathrm{~g} \\ & , 1 \times 1000 \mathrm{~g} . \end{aligned}$ | 10 Nos |  |  |  |
| 7. | Kundt's tube with scale and Accessories: <br> Transparent acrylic tube with scale and end plates with tubing nozzles for filling with various gases, built-in speaker at one end, a bore and guide for accommodating moving piston or probe microphone at the other end. Includes retaining clips for mounting on stands and a connector lead for the speaker,length 1000 mm , dia 70 mm ,tube nozzle 7 mm dia. <br> Accessories for each set: <br> 1Probe micro phone with frequency range 20hz-20000hz with <br> DIN plug for battery box,barrel foot, 1 function | 10 Nos |  |  |  |







|  | Accessories: <br> 2 sphere of Borosilicate glass,2 spheres of Ni- <br> iron and 2 spheres of steel, thermometer 0- <br> 100C,test certificate with accurate values for <br> spheres constant K and density ,silicon <br> tubing(2x) immersion/circulation thermostat |  |  |
| :---: | :--- | :--- | :--- | :--- |
| 43. | Photo Electric cell for determining planks <br> constant with Accessories: <br> Basic apparatus with photo cell, volt meter, | 10 Nos |  |


|  | Maximum output voltage: 10 VIV output can <br> correspond to <br> $100 \mathrm{~V} / \mathrm{c}, 300 \mathrm{~V} / \mathrm{cm}, 1000 \mathrm{~V} / \mathrm{cm}, 10 \mathrm{~V}, 30 \mathrm{~V}, 100 \mathrm{~V}$ (with <br> Ix voltage measurement plate), <br> $100 \mathrm{~V}, 300 \mathrm{~V}, 1000 \mathrm{~V}($ with 10 x voltage <br> measurement plate), I capacitor measurement <br> plate $250 \mathrm{~cm}^{2}$ set Plexiglas spacers, Drip cup <br> basin. |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 49. | Center of gravity apparatus: <br> Comprises a rod mounted on a base with a <br> suspension screw at the top and four laminas <br> of clear acrylic - 1 each of circular, triangular, <br> square and trapezoidal. Each lamina has <br> suspension holes along their periphery. | 10 Nos |  |  |

## WOODWORK SHOP

| S.No | Description of Items with Specification | Qty. | Unite Rate | Total amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Work Benches. Local Best quality $1320 \mathrm{~mm} \times 560 \mathrm{~mm} \times 838 \mathrm{~mm}$ Wood tops thickness 32 mm with wooden leg 102 mm square. | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 2 | Bits Auger. 6 mm to 25 mm Bits auger consisting of 13 bits 6 mm to 25 mm . Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \\ & \hline \end{aligned}$ |  |  |  |
| 3 | Bits Auger. Local Best quality 6 mm 10 mm 12.5 mm 19 mmMade of tool steel double square. | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 4 | Bits Expansive and Adjustable. 15 to 35 mmBits expansive and adjustable, boring from 15 mm to 5 mm . Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 5 | Bits Countersink. 12.5 mm Bits countersink for brace. For wood, 12.5 mm dia. Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \\ & \hline \end{aligned}$ |  |  |  |
| 6 | Bits Screwdriver. Local Best quality 4.75 mm Bits screwdriver 4.75 mm for brace. | $\begin{array}{r} 10 \\ \text { No } \\ \hline \end{array}$ |  |  |  |
| 7 | Screwdriver. Local Best quality $6 \mathrm{mmScrewdriver}$,6 mm for brace. | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 8 | Bits Screwdriver. Local Best quality $8 \mathrm{~mm}, 15 \mathrm{~mm}$ Bits screwdriver, for brace. | $\begin{array}{r} 10 \\ \text { No } \end{array}$ |  |  |  |
| 9 | Bits Gimlet. Local Best quality <br> 2 Size No2,3 Size No3,4 Size No4,5 Size No5 <br> 6 Size No6,7 Size No7,8 Size No8 | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 10 | Bits Brace. 200 mm Bits brace 200 mm sweep "Alligator" Jaw chromed. Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 11 | Bits (Machine). $9.5 \mathrm{~mm} 12.5 \mathrm{~mm} 9 \mathrm{~mm}, 25 \mathrm{~mm}$ Bits Machine for wood. Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 12 | Twist Drills. 1.5 mm to 12.5 mm 3 mm 4.74 mm Twist Drills straight shank. Local Best quality | $\begin{aligned} & \hline 05 \\ & \text { No } \end{aligned}$ |  |  |  |
| 13 | Hand Drill, Local Best quality <br> 8mmDouble pinion drill with die cast body and wooden handle. Used for small drilling operations. Overall dia. 215mm 3jaw chuck type. | $\begin{aligned} & 05 \\ & \text { No } \end{aligned}$ |  |  |  |
| 14 | Vice. Local Best quality 175 mmVice , wood workers rapid action, dog in front jaw. | $\begin{aligned} & 05 \\ & \text { No } \end{aligned}$ |  |  |  |
| 15 | Curving Sets. Curving sets consisting of chisel, bent gauge u-tool skew chisel, veining tool, forged stool blades long wooden handles (set of size) Local Best quality | $\begin{gathered} 6 \\ \text { No } \end{gathered}$ |  |  |  |
| 16 | Chisels. $3 \mathrm{~mm}, 115 \mathrm{mmChisels}$ wood forged in one piece, tough plastic handles. Local Best quality | $\begin{aligned} & 12 \\ & \text { No } \end{aligned}$ |  |  |  |
| 17 | Chisel Wood. <br> 6 mm 9.5 mm 12.5 mm 19 mm 25 mm 37.5 mm 50 mm <br> Chisels wood forged in one piece, tough plastic handles 115 mm blades. Local Best quality | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |
| 18 | Gauges. Local Best quality 3 mm 6 mm 12.5 mm 19 mm 25 mm | $\begin{aligned} & 10 \\ & \text { No } \end{aligned}$ |  |  |  |



| 38 | Screw Driver. Size 1, 2, 3, 100mm shank 6mm <br> blade 150mm shank 6mm blade 225mm shank <br> 6mm blade. Screw drivers. Local Best quality | 10 <br> No |  |  |  |
| :---: | :--- | :---: | :--- | :--- | :--- |

## PLUMBING \& PUBLIC HEALTH ENGG SHOP

| S. <br> No | Description of Items with Specification | Qty. | Unite <br> Rate | Total amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Pipe Wrench. Best quality 18", 12", 08", Pipe wrench heavy-duty pipe wrench. Tough quality one pipe frame housing and handle with replaceable heel jaws, pipe capacity 2,1 , and $3 / 4$ respectively. | 10 No |  |  |  |
| 2. | Pipe Wrench, Best quality. <br> $-1 / 4$ " -4 "Cap.Pipe wrench China type ratcheting and reversing china pipe wrench. Drop forged steel body nickel chrome plate 12 "handle 15 "chain capacity $1 / 4$ to 4" | 10 No |  |  |  |
| 3. | Pipe Grip, <br> Best quality. <br> -Cap-2"Pipe grip 2"capacity fabric step 14"metal handle. | 10 No |  |  |  |
| 4. | Pipe Reamer. <br> Best quality Cap-1"-2"Pipe reamer with handle ratchet type 1 "to 2 "capacity with burning spiral flutes. | 10 No |  |  |  |
| 5. | Pipe Vice (stand/leg) <br> Best quality. <br> $1 / 8$ " $-21 / 2$ "Cap Pipe vice capacity $1 / 8$ "to 2 $1 / 2$ "mouthed on triangular metha table tray, fitted with three metal folding legs. | 10 No |  |  |  |
| 6. | Pipe Thread Set, (Pipe threading Dic:) Best quality. <br> $-1 / 4$ "to $1 \frac{1}{4}$ " Pipe thread set (NPT) reversible reversible ratchet handle set to include dies for pipe size $1 / 4,3 / 81 / 2$, and $3 / 4,1,11 / 4$ inches. | 10 No |  |  |  |
| 7. | Pipe Cutter. $1 / 4$ "to $1 \frac{1}{4}$ "Pipe cutter with heavy duty cutter wheel (capacity $1 / 8$ "to 1 $1 / 4$ ".) , Best quality . | 10 No |  |  |  |
| 8. | Pipe Cutter. $1 / 4$ "to 2"Pipe cutter with heavy duty cutter wheel (capacity $1 / 4^{\prime \prime}$ to $2^{\prime \prime}$ ), Best quality. | 10 No |  |  |  |
| 9. | Cutter Wheel. Cutter wheels these wheels to fit above cutters (CTP2-1 \& CTP2-2), Local Best quality . | 10 No |  |  |  |
| 10. | Wrenches. <br> -Local good quality made $08 ", 10 ", 12^{\prime \prime}$, Wrench adjustable alloy steel construction drop forged rust resistant finish. , Local Best quality. | 5 set |  |  |  |
| 11. | Level aluminum masons 48"with 2 double plumbs and one double level. Local Best quality. | 10 No |  |  |  |
| 12. | Square Steel. 24 " $\times 16^{\prime \prime}$ Square steel 24 "body 16 "tongue. , Local Best quality. | 10 No |  |  |  |




| MOOD MORK SHOP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S. No | Description of Items with Specification | Qty. | Unite Rate | Total amount | Amount of CDR |
| 1. | Work Benches. Local Best quality $1320 \mathrm{~mm} \times 560 \mathrm{~mm} \times 838 \mathrm{~mm}$ Wood tops thickness 32 mm with wooden leg 102 mm square. | 10 No |  |  |  |
| 2. | Bits Auger. 6 mm to 25 mm Bits auger consisting of 13 bits 6 mm to 25 mm . Local Best quality | 10 No |  |  |  |
| 3. | Bits Auger. Local Best quality 6 mm 10 mm 12.5 mm 19 mmMade of tool steel double square. | 10 No |  |  |  |
| 4. | Bits Expansive and Adjustable. 15 to 35 mm Bits expansive and adjustable, boring from 15 mm to 5 mm . Local Best quality | 10 No |  |  |  |
| 5. | Bits Countersink. 12.5 mmBits countersink for brace. For wood, 12.5 mm dia. Local Best quality | 10 No |  |  |  |
| 6. | Bits Screwdriver. Local Best quality 4.75 mm Bits screwdriver 4.75 mm for brace. | 10 No |  |  |  |
| 7. | Screwdriver. Local Best quality $6 \mathrm{mmScrewdriver}, 6 \mathrm{~mm}$ for brace. | 10 No |  |  |  |
| 8. | Bits Screwdriver. Local Best quality $8 \mathrm{~mm}, 15 \mathrm{mmBits}$ screwdriver, for brace. | 10 No |  |  |  |
| 9. | Bits Gimlet. Local Best quality <br> 2 Size No2,3 Size No3,4 Size No4,5 <br> Size No5 <br> 6 Size No6, 7 Size No7,8 Size No8 | 10 No |  |  |  |
| 10. | Bits Brace. 200 mm Bits brace 200 mm sweep "Alligator" Jaw chromed. Local Best quality | 10 No |  |  |  |
| 11. | Bits (Machine). 9.5 mm 12.5 mm 9 mm , 25 mm Bits Machine for wood. Local Best quality | 10 No |  |  |  |
| 12. | Twist Drills. 1.5 mm to 12.5 mm 3 mm 4.74 mm <br> Twist Drills straight shank. Local Best quality | 05 No |  |  |  |
| 13. | Hand Drill, Local Best quality 8 mm Double pinion drill with die cast body and wooden handle. Used for small drilling operations. Overall dia. 215mm 3jaw chuck type. | 05 No |  |  |  |
| 14. | Vice. Local Best quality 175 mmVice, wood workers rapid action, dog in front jaw. | 05 No |  |  |  |
| 15. | Curving Sets. Curving sets consisting of chisel, bent gauge u-tool skew chisel, veining tool, forged stool blades long wooden handles (set of size) Local Best quality | 6 No |  |  |  |



| 35. | Saw. Local Best quality <br> 225mmHand saw coarse cut. | 10 No |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
| 36. | Mitre Box.608mm x 127mmMitre box <br> including eleven point stiff back saw, <br> adjustable angle capacity at right angle <br> 200 mm at 45 degree, 125mm. Local <br> Best quality | 10 No |  |  |
| 37. | Miter Machine.660mm x 100mm Mitre <br> machine including vice clamps stiff <br> back fine tooth saw for picture frame <br> and molding cutting. Local Best quality | 10 No |  |  |
| 38. | Screw Driver. Size 1, 2, 3, 100mm shank <br> 6mm blade 150mm shank 6mm blade <br> 225mm shank 6mm blade. Screw <br> drivers. Local Best quality | 10 No |  |  |

## MACHINIST WORKSHOP

| $\begin{aligned} & \text { S. } \\ & \text { No } \end{aligned}$ | Description of Items with Specification | Qty. | Unite Rate | Total amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Universal Milling Machine <br> Heavy, solid model made of high-grade Meehanite casting <br> Dovetail slideways <br> All slideways hardened <br> Central lubricating <br> Main switch with protective motor switch, right-/ <br> left-handed rotation switch, emergency-stop button <br> Largely dimensioned hand wheels with scale <br> Machine lamp supplied as standard <br> Coolant equipment supplied as standard <br> Drilling capacity(max.) $\varnothing 40 \mathrm{~mm}$ <br> Milling capacity cutter head(max.) ø200 mm <br> Milling capacity end mill cutter(max.) $\varnothing 30 \mathrm{~mm}$ <br> Spindle taper ISO50 <br> Spindle speed $58 \sim 1800 \mathrm{rpm}(50 \mathrm{~Hz})$ <br> $60 \sim 1750 \mathrm{rpm}(60 \mathrm{~Hz})$ <br> Tabel (LxW) 1320x360 mm/ <br> $1600 \times 360 \mathrm{~mm}$ (optional) <br> $\mathrm{X} / \mathrm{Y}$-axis travel automatic $1000 / 300 / 400 \mathrm{~mm}$ <br> T-slot size/distance/number $14 \mathrm{~mm} / 95 \mathrm{~mm} / 5$ <br> Motor 4 KW <br> packing size $(\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 2260 \times 2070 \times 2250 \mathrm{~mm}$ <br> 1. Vertical head. <br> 2. Slotting head. <br> 3. Indexing head <br> 4. Rotary table. <br> 5. Milling vice swivel $90^{\circ}$ <br> 6. Milling arbor long dia $22,25,27,32 \mathrm{~mm}$ <br> 7. Stub Arbor. <br> 8. Gear set for indexing head 13 pieces . | 1 |  |  |  |













| 69. | Inside Micro Meter <br> Using the measured diameter <br> Design standard, compact, lightweight, easy to <br> use. <br> Range: 5-30mm <br> Accuracy: $\pm$ 2 <br> The split: 0.01mm <br> Read the result on line division | 10 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 70. | Dial Verniercallipers <br> Dial Caliper 0-150mm <br> Capacity 0-150mm <br> Resolution 0.02mm <br> Standard DIN862 <br> Shockproof dial caliper <br> Rapid movement with thumb wheel <br> 4 way measurement <br> Hardened stainless steel rack <br> Measuring surface is micro-lapped |  |  |  |
| 71. | Dial Indicator with Magnetic Stand <br> Dial Indicator 0-10mm <br> Range 0-10mm <br> Resolution 0.01mm <br> Diameter 58mm/ear <br> Magnetic Indicator Stand <br> With powerful on/off magnetic base <br> Magnetic force 80kg/ 175LBS <br> Universal mode which can be used for indicators <br> with or without "lug" on backplate <br> Extra rigid |  |  |  |
| 72. | Digital Vernier calipers Different Size <br> Feature Easy to read LCD display <br> Ground micro-lapped measuring surfaces <br> Thumb wheel for fine adjustment <br> Functions: mm/inch conversion, on/off, <br> zero-setting, battery low indication <br> SR44 Battery Capacity Resolution Jaw <br> Length 0-150mm 0-6" 0.01mm <br> 40mm |  |  |  |
| First Aid box <br> Classic Empty First Aid Box <br> Red plastic case <br> H220 x W270 x D90mm |  |  |  |  |

## LIST OF ITEMS FOR COMPUTER LAB

(Shangla, Kohistan, Mansehra, Lakki Marwat)

| S. <br> No | Description of Items with Specification | Qty. | Unite Rate | Total amount | Amount of CDR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Desktop System <br> Processor: 12th Gen Intel Core i5-12400 <br> (cores 06, cache 18 MB ,) Turbo boost frequency: 4.4 GHz <br> RAM: 08 GB DDR4, 3200 MHz <br> Storage: 1TB HDD +256 GB SSD/NVMe <br> Graphics Card: Intel UHD Graphics <br> 730 <br> Network: One RJ-45 <br> USB: Four USB 3.2 Gen 1 ports, Four USB 2.0 ports <br> Audio: One global headset jack, One audio line-out port <br> Video: One DisplayPort, One HDMI <br> Ethernet: Realtek RTL8111HSD <br> Wireless: $2.4 \mathrm{GHz} / 5 \mathrm{GHz}+$ Bluetooth <br> Operating system: Win 11 Pro <br> Accessories: Dell Wired Keyboard \& Mouse <br> LED: Branded 18.5" LED <br> Warranty: One Year Local Warranty Installation: Yes | Total 100 <br> 25 Shangla <br> 25 Kohistan <br> 25 Lakki Marwat <br> 25 Mansehra |  |  |  |
| 2. | 65" LED Specs <br> Size: 65" <br> OS: Android <br> RAM/ROM: DDR3-2133: 1G Bytes or Above <br> Certification: CB, HDMI, Dolby Audio, CTS <br> (Google Official Certification), Netflix <br> Display Type: 4K LED UHD <br> Display Resolution: 3840×2160 <br> UHD Support: Yes <br> Refresh Rate: sixty or <br> Above <br> Dynamic Contrast: Yes <br> Connectivity Internet Link: 2.4GHz dual- <br> band Wi-Fi $802.11 \mathrm{~b} / \mathrm{g} / \mathrm{n}$ or Above <br> HDMI: Yes <br> USB: Yes <br> A/V IN: Yes <br> Headphone: Yes <br> Speaker Type: Integrated Speaker Boxes <br> (Bottom Side) <br> Warranty: <br> One Year Local <br> Installation: Yes | Total 08 <br> 02 Shangla <br> 02 Kohistan <br> 02 Lakki Marwat <br> 02 Mansehra |  |  |  |
| 3. | LaserJet Printer <br> Memory: 64MB <br> Processor: 400 MHz <br> Connectivity: Hi-Speed USB 2.0 port <br> Print speed: Black (normal, A4): Up to 20 <br> ppm <br> First page out: Black (A4, ready): As fast as 8.3 seconds; Black (A4, sleep): As fast as 18 seconds | Total 08 <br> 02 Shangla <br> 02 Kohistan |  |  |  |


|  | Resolution: Black (best): Up to $1200 \times 1200$ dpi; Black (normal): Up to $600 \times 600 \mathrm{dpi}$ Duty cycle (monthly, A4): Up to 10,000 pages <br> Wireless Connectivity: Yes <br> Recommended monthly page volume: <br> 100 to 1,500 pages. <br> Warranty: 1 year Local | 02 Lakki Marwat |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4. | Photocopier Specs <br> Copy, Print, Scan, Wireless <br> Continuous output speed: 27 PPM or better <br> Operation Panel: 4-Line LCD or better <br> Warm up Time: 19 seconds <br> First Page output Time: 6.5 seconds <br> Memory: 512MB or Above <br> ARDF capacity: 50 Sheets <br> Multiple copying: Upto 999 Copies or Above <br> Resolution: 600 dpi or Above <br> Zoom: From 25\% to 400\% in 1\% steps <br> Print Resolution: $600 \times 600 \mathrm{dpi}$ <br> Network Interface: Standard: Ethernet (1000/100/10BASE), USB 2.0 Type B x1, <br> Wireless LAN (IEEE 802.11a/b/g/n/ac) <br> Wi-Fi: Yes <br> Scanning Speed: Mono: 18ipm Color: 6ipm <br> Resolution: 600 dpi <br> Compression Method: MH/MR/MMR, JPEG <br> File Formats: Single Page TIFF, Multi Page <br> TIFF, Single Page JPEG, Single Page PDF, <br> Multi Page PDF <br> Scan Modes: Email, Folder, USB <br> Paper Handling Size: <br> A3, A4, A5, A6, B4, B5, B6 <br> Paper Input Capacity: Standard: 500 sheets <br> Maximum: 1,600 sheets <br> Paper Output Capacity: 250 sheets <br> Warranty: One Year Local <br> Installation: Yes | Total 04 <br> 01 Shangla <br> 01 Kohistan <br> 01 Lakki Marwat <br> 01 Mansehra |  |  |  |

