**Ministry of Education**

**Sector: Industry Development**

**Sub Sector: Metal Manufacturing**

**Occupation: Aluminum Work L-III**

**Consumable materials to be used for projects per candidate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Item description** | **Quantity** | **Unit** | **Specification** |
| 1 | Cotton Gloves | 1 | Pair | According to standard  |
| 2 | Aluminium profile 1 | 3.0 | meter | L profile  |
| 3 | Aluminium profile 2 | 1.7 | meter | Z profile  |
| 4 | Aluminium profile 3 | 0.80 | meter | T profile  |
| 5 | Aluminium profile 4 | 1.10 | meter | Small Ferma |
| 6 | Aluminium profile (Grill Profile) | 0.38 | meter | 370mm |
| 7 | Glass | 1 | m2 | 380mmx240mm |
| 8 | Cutting lubricants | 50 | ml | Kerosene |
| 9 | Rivet | 2 | Pcs | Diameter 3x 5mm |
| 1 | Aluminum Sheet | 01 | Pcs | Thickness=1mm,dia.= 150 mm |
| 2 | Solvent  | 100 | Ml | Caustic Soda Solution) |
| 3 | Lubricant grease | 50 | Mg | Standard |

 **Non consumable materials to be used for projects per candidate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Item description** | **Quantity** | **Unit** | **Specification** |
| 1 | Desktop Computer (Auto CAD/Soildwork, CATIA Software) Installed | 1 | Pcs | Standard |
|  |  |  |  |  |
| 1 | Hard hat/cap  | 1 | Piece  | Standard  |
| 2 | Safety glasses  | 1 | Piece | standard |
| 3 | Pop rivet pliers  | 1 | Piece  | Standard |
| 4 | Screw drivers | 1 | Piece  | Standard |
| 5 | Brooms | 1 | Piece  | Normal  |
| 6 | Painting Brushes | 1 | Pcs  | 1/2 Inch Size |
| 7 | Ear protection | 1 | pair | According to standard  |
| 8 | Wooden/steel bench  | 1 | Pcs | According to standard  |
| 9 | Straight edge  | 1 | Pcs | According to standard  |
| 10 | Set squares  | 1 | Pcs | According to standard  |
| 11 | Portable electric drills and trumpeter / Clip machine | 1 | Pcs | According to standard  |
| 12 | Cutting saw | 1 | Pcs | According to standard  |
| 13 | Drill bit  | 1 | pcs | Diameter 6.75 (Standard) |
| 14 | Drill bit  | 1 | pcs | Diameter 5 (Standard) |
| 15 | Portable circular cutting machine  | 1 | pcs | According to standard  |
| 16 | Handle | 1 | Pair | According to standard  |
| 17 | Hinge | 2 | Pcs | According to standard  |
| 18 | Locks | 1 | Pcs | According to standard  |
| 19 | Tungsten wheel glass cutters | 1 | Pcs | According to standard  |
| 20 | Rubber hammer | 1 | Pcs | According to standard  |
| 21 | Levelling | 1 | Pcs | According to standard  |
| 22 | File | 1 | Pcs | Flat |
| 23 | Angle Connector | 4 | Pcs | L-Shape/Standard |
| 24 | Angle Connector | 2 | Pcs | T-Shape/ Standard |
| 25 | Rotary Machine  | 1 | Pcs | According to standard  |
| 26 | Gasket | 1.1 | meter | According to standard  |
| 27 | Screw | 8 | Pcs | Diameter 6 x65 /if Clip m/c does not used |
| 28 | Screw | 4 | Pcs | Diameter 8 x 65 |
| 29 | Screw | 12 | Pcs | Diameter 5 x 25 |
| 30 | Screw | 4 | Pcs | Diameter 3 x 10 |
| 1 | Spinning lathe/lathe machine | 01 | pcs | Standard |
| 2 | Mold/ disc | 01 | pcs | As given drawing |
| 3 | Vernier caliper | 01 | Pcs | 0-200mm |
| 4 | Measuring tape | 01 | pcs | 3mt |
| 5 | Spinning stick | 01 | pcs | 1mt wood/pipe dia=25mm |
| 6 | Spinning tool for lathe machine | 01 | pcs | Standard |
| 7 | Service Plate Basin plastic | 01 | pcs | D=500mm, depth=200mm |
| 8 | Trimming or parting tool | 01 | pcs | 10x10x3mm |
| 9 | Portable Hand drill Machine | 01 | pcs | According to standard |
| 10 | Drill Bit | 01 | pcs | Diameter 3.5 |
| 11  | Vice | 01 | pcs | According to standard  |
| 12 | Hammer | 01 | pcs | According to standard  |

**Note: Materials and tools may be modified by the assessor, depending on the actual job performed, and location & the standard installation practices of the country**