

## **Guaranteed Technical Particulars - Intermediate Pole Clamp**

|       | Description  | Bidder's Offer   |
|-------|--|--|
| 1.    | Manufacturer's name & country of manufacture             | Metsec Cables Ltd, Kenya                                 |
| 2.    | Type reference/ Model number of items offered (as        | Intermediate Pole Clamp as per                           |
|       | per clause 6.4.(iii))                                    | TSP/02/004/02  |
|       |  | KPLC Codes   |
|       |  | 186431   |
|       |  | 186432   |
|       |  | 186433   |
|       |  | 186434   |
|       |  | 186442   |
| 3.    | List of components to be supplied (for one installation) | The clamps will be provided with line bolts, rib bolts,  |
|       |  | c/w 2 no. nuts, of which shall be a locking nut, 1no.    |
|       |  | Flat washer, 1no. Spring washer                          |
| 4.1   | Service Conditions                                       | The accessories shall be suitable for continuous         |
|       |  | operation outdoors in tropical areas at altitudes of up  |
|       |  | to 2200m above sea level, humidity of up to 95%,         |
|       |  | average ambient temperature of +30°C with a              |
|       |  | minimum of -1°C and a maximum of +40°C, in direct        |
|       |  | sunlight, heavy saline conditions along the coast and    |
|       |  | isokeraunic levels of up to 180 thunderstorms days per   |
|       |  | year   |
| 4.2.1 | Structural grade of steel                                | The multipurpose pole clamp shall be fabricated from     |
|       |  | structural steel grade Q235 as specified in the BS       |
|       |  | 4360: "Specification for wieldable structural steel" and |
|       |  | be hot dipped to ISO 1461                                |
| 4.2.2 | Tensile strength of light and heavy duty multipurpose    | The tensile strength of the multipurpose pole clamp      |
|       | clamps   | shall be not less than 70KN for light duty clamps and    |
|       |  | 120KN for the heavy duty clamps respectively.            |
| 4.3.1 | Adaptation of clamps to both wooden and concrete         | The multipurpose pole clamps shall be designed to        |
|       | poles  | adapt to circular concrete poles tapering diameters at   |
|       |  | 13mm per metre and wooden poles for attaching line       |
|       |  | accessories at various configurations.                   |
| 4.3.3 | Type of cutting and forging                              | The multipurpose pole clamps shall be designed with      |
|       |  | forged reinforcing stiffer (ribs) on their corners for   |
|       |  | extra strength.  |
|       |  | The cutting shall be by cold process (cutting and        |
|       |  | punching).   |





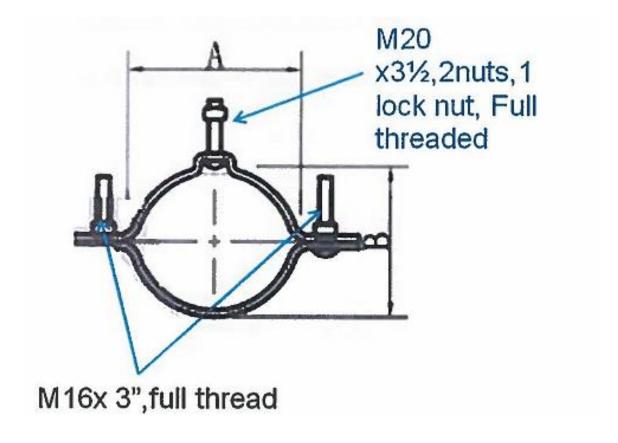
| 4.3.4 | Bending and shaping                                    | The bending and shaping shall be by hot forging. In case of cold bending, the materials after bending shall be stress relieved at min. temperature of 600°C and it shall be capable of being re-flattened without fracture.   |
|-------|--|---|
| 4.3.5 | Finished product (appearance)                          | All surfaces of the multipurpose pole clamps shall be smooth, free from blisters, sharp edges or any other irregularities which can injure personnel during assembly or installation  |
| 4.4.1 | Compliance to dimensional and performance requirements | The multipurpose pole clamps shall conform to dimensional and performance requirements of Document No. KP1/3CB/TSP/02/004 – Specification for Multipurpose Overhead Line Clamps.  The multipurpose pole clamps shall be specified on the basis of the dimensions specified in table 1 and 2 of the specification and drawings in fig. 1(TSP/01) to fig 3 (TSP/03) |
| 4.4.4 | Multipurpose clamps locking bolts sizes                | The locking bolt size will be M20 x 3 ½" Full threaded and supplied with 2no. Nuts, one of which shall be a locking nut, 1no. flat washer, and 1no. spring washer.  |
| 4.4.5 | Size of line bolts and rib bolts                       | The rib bolts size will be M16 x 3" Full threaded and supplied with 1no. flat washer, and 1no. spring washer, and 1no. Locking Nut.   |
| 4.4.6 | Dimensions of holes                                    | The holes will be drilled with dimension ± 5% of the diameter of the bolts  |
| 4.4.7 | Thickness of galvanization and compliance to ISO 1461  | All components will be hot dipped galvanized to ISO 1461 with a min. zinc coating thickness of 80µm   |
| 5.5   | Experience in manufacture of multipurpose clamps       | 3years  |





| 6.1   | Design and fabrication drawings to KP for approval before manufacturing | Yes, design and fabrication drawings will be given to KPLC for approval before manufacturing.  |
|-------|---|--|
| 6.4.3 | Labeling and marking by engraving as per specifications                 | Each item will be engraved legibly and indelibly with the following information i) Manufacturer's Name ii) Month and Year of Manufacture iii) Type Reference No. iv) Mechanical Characteristics v) Size vi) Standard |
|       |   | vii) Duty of the item (e.g. LD or HD)  |

## **Drawing with Dimensions**



All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale

