P & B WEIR ELECTRICAL design and manufacture a range of products including:

- Portable Earthing Equipment for EHV sub-station and overhead line applications
- Gas and oil operated ‘Buchholz’ transformer protection relays
- P & B Golds’ motor protection relays
- Electrical Instruments and Test Equipment

The company maintains a quality system in accordance with ISO 9001, inspected and certified by EAQA Ltd

Design Features:

- Lightweight
- Machined joints
- Double sided snap action stainless steel fastening clips
- High Flexural strength
- Manufactured to ESI 41-21, ESI 43-81 and TPS 1/113
- Available in standard lengths of 4’ or 8’ although special lengths can also be supplied
- Available with open weave handgrip to aid use in adverse weather conditions
- Telescopic Poles available

Operating Poles for use with Portable Earthing Equipment

Manufactured from light-weight resin-impregnated glass fibre of insulation quality. Available in standard sections with machined joints to provide a rigid assembly including double sided snap action spring locking device, manufactured from stainless steel. Operating poles are available to suit the specific requirements of Sub-station, Transmission Line and Distribution Line applications. Poles have been type tested and are approved for use by leading Power Authorities.

Operating Poles for use in Sub-stations

Operating Poles are manufactured, tested and approved to standard ESI 41-21. These facilitate a maximum operating length of 4.88m (16’) consisting of pole sections of either 2.44m (8’) or 1.22m (4’). 1.22m long Operating Poles are available as single sections although it is recommended that these should be supplied as two sections permanently linked to avoid a 1.22m length of pole being fitted with an Operating Socket. Open weave handgrips are bonded to lower pole sections to aid use in inclement weather conditions.

Operating Poles for use on Overhead Transmission Lines

Operating Poles are manufactured, tested and approved to standard 43921 TPS 1/113 (Overhead Lines) and NSI4 (Work on High Voltage Overhead Lines). Poles are available as a 2.44m (8’) single section, or as telescopic poles as follows;

- The two part telescopic pole has an extended length of 4.83m (15’ 10”) and a closed length of 2.55m (8’ 4”). Intermediate spring loaded locking pegs provide partially extended lengths of 4m (13’ 1”) and 4.4m (14’ 5”). The lower end of the pole has an open weave handgrip bonded to it. A carrying sling can be provided or alternatively an end plug can be supplied which, upon removal, provides location for a 1.83m (6’) extension pole.

- The TL1 telescopic pole comprises three close fitting tubes having a fully extended overall length of 7.2m (23’ 7”) and a closed length of 2.55m (8’ 4”). Intermediate spring loaded locking pegs permit intermediate lengths of 5.5m (18’) and 6.2m (20’4”). The lower pole section has an open weave bonded handgrip.

A 0.6m (2’) Bridging Earth pole is available with rain shield/shed fitted above the open weave bonded handgrip and a swivelling eye fitting at the bottom of the pole. The pole employs an Operating Socket for application of P&B Line End clamps with Long Taper type operating screws.

Operating Poles for Distribution Lines

Operating Poles are in accordance with ESI 43-81 and typically 1.22m (4’) long, although other lengths are available. Poles can be supplied as Top, Intermediate or Lower sections. Bonded open weave handgrips can be applied to any section and blanking plugs or pole end bungs can be fitted. Rain shields/sheds can also be fitted if required.
Spigot type Operating Poles for use with Portable Earthing Equipment

Spigot type Operating Poles for Distribution Line Applications
Manufactured from lightweight resin-impregnated glass fibre of insulation quality. Available in standard 1.22m (4') sections with machined joints to provide a rigid assembly. Sections are assembled with a choice of either single or double sided snap action spring locking devices. The Top section poles have a double sided sprung locking pin device operated by plungers to secure/operate pole heads. Locking devices are available in either stainless steel or bronze.

Operating Poles are in accordance with ESI 43-81 and typically 1.22m (4') long, although other lengths are available. Poles can be supplied as Top, Intermediate or Lower sections. Bonded open weave handgrips can be applied to any section and blanking plugs or pole end bungs can be fitted. Rain shield/sheds can also be fitted if required.

Carrying Bags
Reinforced pvc carrying bags are constructed from sturdy fabric reinforced material to provide a durable weather-proof sheath for operating poles. The ‘golf type’ bag is suitable for carrying a range of 1.22m (4’) poles and has a pocket for carrying pole heads. The top of the bag has a ‘velcro’ fastener and a webbing strap allows the bag to be carried over the linesman’s shoulder.

Alternatively carrying bags are available to contain a complete earthing set comprising earth and line end clamps, interconnecting and earth leads, earth rods, operating poles and pole heads to provide protection of the equipment during transit as well as easing transportation in the field.