



METER MANUFACTURING PLANT
TECHNICAL SPECIFICATION OF
BACKLITE LED PANEL

Specification No.
MP-BLP-MNT-R00
Page 1 of 1

GENERAL REQUIREMENT:

The LED Panel is required for Meter Manufacturing Plant for general use.

FEATURES:

The LED Panel shall provide an inspiring edge-to-edge lighting appearance, providing soft, even, and comfortable illumination. It shall ensure uniform light distribution with no visible shadows, deliver high efficiency with low power consumption, and be suitable for both suspended and surface-mounted installation.

TECHNICAL SPECIFICATION:

The LED Panel shall have the following Technical properties:

- **Item Description:** LED Panel
- **LED Type:** SMD LED
- **Shape:** Square
- **Dimension(mm):** 600L x 600W x $\leq 35H$
- **Rated Power:** 40 Watt ($\pm 5\%$)
- **Operating Voltage & Frequency:** 220-240V AC, 50/60 Hz
- **Operating Temperature:** -20°C to $+40^{\circ}\text{C}$
- **Luminous Flux:** $\geq 4,400$ Lumens
- **Color Rendering Index (CRI):** $R_a \geq 80$
- **Beam Angle:** 120°
- **Power Factor:** $PF > 0.9$
- **Ingress Protection:** IP40
- **Color Temperature:** White (3000K / 4000K / 6500K)
- **Lifetime:** 50,000 hours
- **Housing:** Durable, heat-resistant body with uniform light diffusion.
- **Driver:** High quality, built-in constant current driver with protection against high voltage, short circuit and thermal overload.
- **Standards & Compliance:** Product shall conform to relevant IEC / ISO / Pakistan Standards

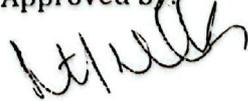
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Warranty.

Minimum 1 year from date of supply against manufacturing defects and abnormal lumen depreciation.

Technical Literature:

The bidder shall submit all complete necessary technical literature upon request.

Prepared by: 	Checked by: 	Approved by: 	Revision No. 00 Date :February 10, 2026
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METER MANUFACTURING PLANT
TECHNICAL SPECIFICATION OF
LAMP-ENERGY SAVER (THREAD TYPE)

Specification No.
MP-LESTT-MNT-R00
Page 1 of 1

GENERAL REQUIREMENT:

The Lamp Energy Saver (Thread Type) is required for Meter Manufacturing Plant for general use.

FEATURES:

The Lamp Energy Saver Thread Type shall provide instant start with no flicker, high luminous efficiency, and uniform light distribution. It shall offer long life, stable performance, and maximum energy savings. The lamp shall be mercury-free, emit no UV or IR radiation, and be suitable as a direct replacement for conventional lamps

TECHNICAL SPECIFICATION:

The Lamp Energy Saver Thread Type shall have the following Technical properties:

- **Item Description:** Lamp Energy Saver-Thread Type (E27 or equivalent).
- **LED Type:** SMD LED
- **Material:** PC + Aluminum
- **Dimension(mm):** 350L x 156W
- **Rated Power:** 50 Watt ($\pm 5\%$).
- **Operating Voltage & Frequency:** 105-300V AC ($\pm 10\%$), 50/60Hz.
- **Operating Temperature:** -10°C to $+40^{\circ}\text{C}$
- **Luminous Flux:** Approx. 4500-4800 LM
- **Light Color / CCT:** White (3000K / 4000K / 6500K).
- **Color Rendering Index (CRI):** $R_a \geq 80$
- **Beam Angle:** 200°
- **Power Factor:** $PF > 0.95$
- **Lifetime:** 25,000 hours
- **Housing:** Durable, heat-resistant body with uniform light diffusion.
- **Driver:** High quality, built-in constant current driver with protection against high voltage, short circuit and thermal overload.
- **Standards & Compliance:** Product shall conform to relevant IEC / ISO / Pakistan Standards

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Warranty.

Minimum 1 year from date of supply against manufacturing defects and abnormal lumen depreciation.

Technical Literature:

The bidder shall submit all complete necessary technical literature upon request.

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Approved by:

Revision No. 00

Date :February 10, 2026

GENERAL REQUIREMENT:

The LED Tube Light is required for Meter Manufacturing Plant for general use.

FEATURES:

The LED Tube Rod shall provide instant, flicker-free start, high luminous output with low power consumption, and consistent, uniform lighting. It shall be a direct replacement for fluorescent tubes, offering long life and maintenance-free operation.

TECHNICAL SPECIFICATION FOR LED TUBE ROD:

The LED shall have the following Technical properties:

- **Item Description:** LED Tube Light (Rod type)
- **Material:** PC + Aluminum
- **LED Type:** SMD LED
- **Dimension(mm):** 1219.2L x 75W
- **Rated Power:** 40 Watt (±5%)
- **Operating Voltage & Frequency:** 150 - 265V AC, 50/60Hz
- **Operating Temperature:** -25°C to +45°C
- **Luminous Flux:** ≥4,000 Lumens
- **Light Color / CCT:** White (3000K / 4000K / 6500K)
- **Beam Angle:** ≥100°
- **Color Rendering Index (CRI):** Ra ≥ 80
- **Power Factor:** PF > 0.9
- **Ingress Protection:** IP50
- **Lifetime:** 25,000 hours
- **Housing:** Durable, heat-resistant body with uniform light diffusion.
- **Driver:** High quality, built-in constant current driver with protection against high voltage, short circuit and thermal overload.
- **Mounting Type:** Compatible with standard LED tube fittings.
- **Standards & Compliance:** Product shall conform to relevant IEC / ISO / Pakistan Standards

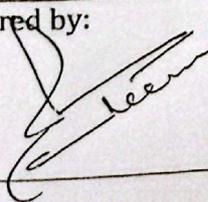
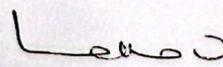
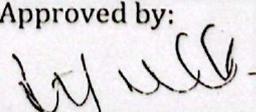
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Warranty.

Minimum 1 year from date of supply against manufacturing defects and abnormal lumen depreciation.

Technical Literature:

The bidder shall submit all complete necessary technical literature upon request.

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SUI SOUTHERN GAS COMPANY LIMITED

SPECIAL TERMS AND CONDITIONS

Electric Items

1. The bidder must be registered with NTN and GST.
2. Bidders are required to visit the site prior to submitting their bids to fully understand the operational requirements.
3. All items supplied must be brand new, unused, of the latest manufacturing batch, and free from any defects in material or workmanship.
4. All Electric Materials must be fully compatible with the specified Specification.
5. Items must be securely packed using appropriate protective materials to prevent any damage during transportation, handling, or storage.
6. Each package shall be clearly labeled with the item name, quantity, manufacturer details, and the relevant purchase order number to ensure proper traceability.
7. Any item found non-compliant with the specifications or deemed unsuitable during inspection will be rejected. The supplier shall replace such items at their own cost within the stipulated period, without affecting ongoing operations.