

THE SINGARENI COLLIERIES COMPANY LIMITED
(A GOVERNMENT COMPANY)
PURCHASE DEPARTMENT, SINGARENI BHAVAN,
RED HILLS, PO: KHAIRTABAD, HYDERABAD – 500004
TELANGANA (STATE)
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SCCL GST No : 36AAACT8873F1Z1
NOTICE INVITING TENDERS (NIT)

ENQ.NO & DATE: HY125O0150 DT: 04.09.2025

DT: 04.09.2025

Sub: Procurement of.

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ENQ CLOSING DATE: 30.10.2025 ON OR BEFORE 3.00PM
ENQ OPENING DATE: 30.10.2025 AFTER 3.00 PM

MODE OF ENQUIRY : OPEN TENDER
NUMBER OF SOURCES : SINGLE
MODE OF TENDERING : SINGLE COVER

Sl. No	Item Code	Material Description	Qty	Unit
1	4461140090	DIGITAL MULTIMETER	10	NOS
2	4470750517	AC/DC DIGITAL CLMP METER	10	NOS
3	4470550152	MEGGER 500V	1	NOS
4	4470550309	MEGGER 2500V	1	NOS
5	4470550887	EARTH MEGGER TO MESR EARTH RES 0-100OHMS	1	NOS
6	4439230039	DIGITAL LUX METER 0-50000	1	NOS

Specifications: Enclosed as ANNEXURES.

Note: Supply Material with as per the given specifications enclosed.
Make to be mentioned. Without any make Offers will not be accepted.

Delivery Period: Within 2 to 4 Weeks

Supply: Area Stores, Yellandu Area.

Few firms are not supplying items/materials. Their offers will not be considered.

Firms are requested to submit offers with sufficient knowledge of enquired items. If any doubt regarding enquired item, please ask before submitting offers only.

NOTE: FIRMS ARE REQUESTED TO MENTION DELIVERY PERIOD, HSN CODE, GUARANTEE PERIOD, MAKE OF THE ITEM IF ANY, OFFERS WITHOUT ABOVE, WILL NOT BE CONSIDERED FOR FURTHER PROCESS

NOTE:

- Submit sealed covers. These covers to be submitted with Enquiry No, date & Address of SCCL and Firms name.
Vendors who can supply within 2 to 4 weeks on receiving the Order copy only should participate in the enquiry. HSN CODE TO BE MENTIONED MAKE TO BE MENTIONED.

- A. Offers are invited from vendors located in Hyderabad/Secunderabad vendors only will be considered.
- B. OFFER VALIDITY: Bidder shall keep the offer valid for a period of 4 months from the date of opening of the tenders. The offer with less validity period than stipulated is liable for rejection.
- C. GST (GOODS AND SERVICE TAX) registration certificate to be submitted along with material HSN/SAC CODE. The applicability of GST & other taxes, if any, in % shall be clearly mentioned an extra.
- D. The bidders offered without any GST & other taxes, their landed cost will be arrived by taking maximum GST% quoted by other bidders.

A) GENERAL TERMS AND CONDITIONS

- a. Validity, delivery period, GST, Warranty / Guarantee to be mentioned.
- b. Tenders received after stipulated time and date will not be considered for whatsoever reasons thereof.
- c. Quotation must be on a paper identifying the firm with telephone number etc. They should be clear and free from corrections and erasing.
- d. Rate quoted by you should be valid for 120 days from the date of opening of tenders and no revision of rates will be permitted during the above period.
- e. Rate should be quoted as per the sizes / units / makes / brands asked for otherwise such offers will not be considered.
- f. The quantity shown in the enquiry is not firm and fixed. It may be increased /decreased.
- g. The material is to be supplied as per the tender enquiry and should be delivered at **Area Stores, Yellandu Area**. No transportation charges will be paid separately unless it is mentioned in the offer clearly. Mention whether the offer is Ex-showroom, Ex-work or delivery at our office, Hyderabad
- h. Samples of the items should be submitted in case, they are asked for in the enquiry
- i. Those who are having ready stocks, capable of supply of material as per the enquiry within the stipulated time only need to forward their offer.
- j. M/s SCCL deserves the right to reject any/all the tender (s) or accept any offer or part thereof without giving any reasons. Its decision in this matter will be final and binding on all the tender/(s).
- k. Sealed tenders can be dropped in the tender box in the Company Purchase Office at Hyderabad or can be sent by post / courier before the due date and time. Fax quotations are not accepted
- l. M/s SCCL will not, in any way, be responsible for any postal delay.
- m. Separate cover may be used for each quotation. Quotations of different enquiries put in single cover will not be considered.
- n. Payment will be made within 30 days after receipt of material at **Area Stores, Yellandu** .
- o. **9YOU HAVE TO SUBMIT YOUR BANK DETAILS FOR RTGS/ONLINE PAYMENTS**

Tax Retention Clause:

- The supplier shall upload his Tax Invoice in the GSTN as per the provisions of the GST Act i.e., by 10th of the month subsequent to the month in which "Time of Supply" arises.
- A) In respect of orders where the entire order quantity is executed in phased manner through multiple invoices or where staggered payment is made, if the "Tax Invoice" is not uploaded within the time limits prescribed under GST Act, the tax amount will be withheld from the payment made against subsequent Invoice till such time the invoice is uploaded. The final payment is subject to compliance of all formalities under GST by the supplier.
 - B) From 01.11.2020 onwards all the vendors whose turnover is more than Rs.10 Crores or above in the financial years 2022-23, 2023-2024 &2024-2025 have to submit e-invoice with QR code printed on it. If the turnover is less than Rs.10 Crores than the firm has to declare that we are exempted from e-invoicing requirement. Therefore, the said e-invoicing provisions are not applicable to our company. Towards this, the firm is required to submit undertaking detailed in "ANNEXURE" along with Invoice.
 - C) **BILLS WILL NOT BE ACCEPTED WITHOUT e-INVOICING IF THE AGGREGATE TURNOVER IN ANY OF THE THREEFINANCIAL YEARS 2022-2023, 2023-2024 &2024-2025. EXCEEDS Rs.10 CRORES.**
 - D) Materials or Items to be supplied 2 to 4 weeks after placement of order.
 - E) Firms are requested to submit offers with sufficient knowledge of enquired items. If any doubt regarding enquired item, please ask before submitting offers only.

- F) In case the bidder is unable to submit performance reports, a self certification duly signed and stamped by the bidder, indicating Purchase order number, machine serial number, commissioning date and annual working hours and confirming that the equipment/item offered or similar equipment/item of higher specification, supplied to any Govt. sector/ public sector, have performed satisfactorily for a minimum period of 1 year from the date of commissioning of the equipment and there are no warranty/guarantee claims pending, shall be considered. self certification is not acceptable for the suppliers made to private Firms

ANNEXURE

If turnover not exceeds Rs 10 crores, firm has to submit following undertaking along with the bills.

PROFORMA			
Our turnover during the Financial years 2022-23, 2023-2024 & 2024-2025 is less than the Rs.10 crores			
Name:		Designation:	
		Company Name:	
GSTIN	E-invoicing applicability	SEZ (Yes/No)	Status
Any loss of ITC or discharge of interest and penalty arising to SCCL due to any misinformation from us, we are liable to reimburse the same to SCCL on the basis of this declaration.			
SIGNATURE OF OWNER WITH STAMP/SEAL.			

G) FAX/MAIL QUOTATIONS ARE NOT ACCEPTABLE.

Section Officer, Hyderabad.

AGM (E&M)/HYD.

01. Electrical Digital multimeter specifications

General Specifications:

Parameter	Typical Specification	Description
Display Type	LCD (3½ or 4½ digits)	Shows numeric readings; 3½ digits means max reading of 1999.
DC Voltage Range	200 mV – 1000 V	Measures low to high DC voltage.
AC Voltage Range	200 V – 750 V	Measures alternating voltage (household, industrial).
DC Current Range	200 µA – 10 A	For measuring direct current.
AC Current Range	200 µA – 10 A	For measuring alternating current.
Resistance Range	200 Ω – 200 MΩ	For testing resistors, circuits, and wiring.
Continuity Test	Audible buzzer ($\leq 50 \Omega$)	Beeps if circuit is complete.
Diode Test	Forward voltage drop (0–2 V)	Used to check semiconductor diodes.
Capacitance Range	Few nF – 1000 µF (varies)	For measuring capacitors.
Frequency Range	Up to 20 MHz (advanced models)	For signal and power frequency tests.
Temperature Measurement	-20°C to +1000°C (optional)	With thermocouple probe.
Display Count	1999, 3999, 6000, or 9999 counts	Indicates display precision level.
Input Impedance	$\geq 10 \text{ M}\Omega$	Ensures accurate voltage readings without circuit load.
Accuracy (DC Voltage)	$\pm(0.5\% - 1.0\% \text{ of reading} + 1 \text{ digit})$	Defines measurement precision.
Sampling Rate	2–3 times per second	Speed of measurement update.
Overload Protection	Yes (fuse protected)	Prevents damage from high current/voltage.
Power Supply	9V battery	Standard for handheld DMMs.
Auto Power-Off	Optional	Saves battery when idle.
Auto/Manual Range	Both available	Auto-ranging selects scale automatically.

Mechanical & Safety Specifications:

Feature	Specification / Standard
Fuse Protection	Fast-blow fuse (e.g., 10A, 250V)
Safety Category	CAT II / CAT III / CAT IV (IEC 61010)
Operating Temperature	0°C – 40°C
Storage Temperature	-10°C – 50°C
Relative Humidity	$\leq 75\% \text{ RH}$
Dimension & Weight	$\sim 150 \times 70 \times 30 \text{ mm}$; 200–400 g


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02. AC/DC Digital Clamp Meter

A **Digital Clamp Meter** measures **AC and DC current, voltage, resistance**, and more.

It uses a **clamp sensor** to detect current through a conductor **without direct contact** (non-invasive measurement).

Technical Specifications:

Parameter	Typical Specification	Description
Display Type	LCD (3¾ or 4½ digits, 3999–9999 counts)	Shows numeric readings clearly.
AC Current Range	2 A / 20 A / 200 A / 600 A / 1000 A (model dependent)	Measured via clamp jaws.
DC Current Range	2 A / 20 A / 200 A / 600 A / 1000 A	Measures direct current (available only in DC models).
AC Voltage Range	200 V / 750 V	Measures alternating voltage.
DC Voltage Range	200 mV / 2 V / 20 V / 200 V / 1000 V	Measures direct voltage.
Resistance Range	200 Ω – 20 M Ω	For checking resistors, continuity, etc.
Continuity Test	Audible buzzer (<50 Ω)	Beeps if circuit is complete.
Diode Test	Forward voltage drop (0–2 V)	Used to check semiconductor diodes.
Frequency Range	10 Hz – 10 MHz	For power and signal frequency measurement.
Capacitance Range	Up to 1000 μ F (some models)	For checking capacitors.
Temperature Range	-20°C to +1000°C (optional, with K-type probe)	For temperature monitoring.
Jaw Opening	30 mm – 50 mm	Maximum conductor diameter measurable.
Input Impedance (Voltage)	≥ 10 M Ω	Ensures accurate voltage readings.
Sampling Rate	~2–3 readings per second	Updates measurement display.
Data Hold Function	Yes	Freezes reading on the display.
Auto Power-Off	Yes	Saves battery life.
Backlight Display	Yes	For use in low-light environments.
True RMS	Optional	For accurate AC readings of non-sinusoidal waveforms.


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Safety & Construction:

Feature	Specification / Standard
Overload Protection	Fuse and electronic protection on voltage ranges
Safety Rating	CAT II 600V / CAT III 1000V (IEC 61010-1)
Insulation Category	Double insulation
Power Supply	9V or 1.5V × 2 AA batteries
Operating Temperature	0°C – 40°C
Storage Temperature	-10°C – 50°C
Humidity	≤75% RH
Dimensions	~250 × 90 × 45 mm
Weight	300 – 500 g

03. Megger 500V

Technical Specifications:

Parameter	Typical Specification	Description
Model Type	Insulation Resistance Tester (Hand-cranked or Digital)	Also called "Megger Tester."
Test Voltage	500 V DC	Standard output test voltage for medium-voltage systems.
Insulation Resistance Range	0.1 M Ω to 1000 M Ω (varies by model)	Measures insulation strength between conductors.
Accuracy	$\pm$ (3% of reading + 2 digits)	Typical for digital models.
Short-Circuit Current	≤ 2 mA	Safe limit for insulation testing.
Display Type	Analog scale or Digital LCD	Depends on model.
Power Supply	Hand-cranked generator or internal batteries (usually 6 $\times$ 1.5V cells)	Hand-crank provides test voltage mechanically in classic models.
Test Current	1 mA at rated voltage	Standard insulation test current.
Guard Terminal	Provided	Eliminates surface leakage effects.
Auto Discharge	Yes (in digital models)	Safely discharges capacitive circuits after testing.
Continuity Range	0-100 Ω	For low-resistance testing of conductors.
Continuity Test Current	Up to 200 mA	Used in circuit resistance measurement.
Backlight Display	Optional	For visibility in dark conditions.
Data Hold / Memory	Optional	Stores readings for record keeping.
Test Voltage Options (in some models)	250V / 500V / 1000V	Selectable test voltage.

Environmental & Safety Specifications:

Feature	Specification
Safety Rating	CAT III 600V (IEC 61010-1)
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C
Humidity	$\leq 85\%$ RH
Overload Protection	Electronic protection on all ranges
Enclosure Protection	IP40 - IP54 (depending on model)
Dimensions	Approx. 200 $\times$ 150 $\times$ 90 mm
Weight	600 g - 1.2 kg

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04. Megger 2500V

A **Megger 2500V Insulation Resistance Tester** is designed to measure very high insulation resistance by applying a **high DC voltage (up to 2500 volts)**. It is commonly used in **industrial power equipment, high-voltage installations, and preventive maintenance testing**.

Technical Specifications:

Parameter	Typical Specification	Description
Instrument Type	High-Voltage Insulation Resistance Tester	Measures insulation resistance at 2500V DC.
Test Voltages (Selectable)	500V / 1000V / 2500V	Multiple voltage ranges for different test levels.
Insulation Resistance Range	0.1 MΩ to 200 GΩ (depending on model)	Very wide measurement range for insulation quality.
Accuracy	±(2% of reading + 2 digits)	High precision readings.
Short-Circuit Current	≤2 mA	Limits current for user safety.
Display Type	Large LCD (Digital) or Analog Scale	Easy-to-read results display.
Test Current	1 mA at rated voltage	Standard insulation test current.
Guard Terminal	Provided	Eliminates surface leakage errors.
Auto Discharge Function	Yes	Safely discharges after each test.
Continuity Measurement	0–100 Ω (typical)	Low-resistance continuity test.
Continuity Test Current	Up to 200 mA	Ensures accurate conductor resistance measurement.
Polarization Index (PI) / Dielectric Absorption Ratio (DAR)	Available in advanced models	Used for advanced insulation analysis.
Power Supply	Internal rechargeable battery or 8 × 1.5V cells	Portable and field-usable.
Data Storage / USB Interface	Optional	For recording and transferring test results.

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Electrical & Safety Specifications:

Feature	Specification / Standard
Safety Category	CAT IV 600V / CAT III 1000V (IEC 61010-1)
Protection Rating	IP54 (dust and splash-proof)
Overload Protection	Electronic and fuse-protected
Operating Temperature	0°C – 50°C
Storage Temperature	-20°C – 60°C
Relative Humidity	≤85% RH (non-condensing)
Dielectric Strength	1.5 kV (rms) between input and case
Dimensions	Approx. 230 × 150 × 90 mm
Weight	1.0 – 1.5 kg (depending on model)

Typical Measurement Ranges:

Test Voltage (DC)	Measurement Range (Typical)
500 V	0.1 MΩ – 50 GΩ
1000 V	0.1 MΩ – 100 GΩ
2500 V	0.1 MΩ – 200 GΩ

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05. Earth Megger to Measure Earth Resistance 0-100 OHMS

The **Earth Megger** is used to measure the **resistance of the earth connection (earthing system)** — ensuring safe dissipation of fault current into the ground.

It helps verify:

- Proper grounding of electrical systems
- Safety of equipment and personnel
- Performance of lightning protection systems

Measuring Principle:

The tester applies a **known current through the ground** (via auxiliary electrodes) and measures the **voltage drop**, calculating resistance using **Ohm's Law ($R = V/I$)**.

It typically uses a **three-terminal** or **four-terminal** method:

- **E (Earth Electrode)**
- **P (Potential Spike)**
- **C (Current Spike)**
- (Optional **Guard terminal** to improve accuracy)

Technical Specifications:

Parameter	Typical Specification	Description
Instrument Type	Earth Resistance Tester (Megger Type)	Measures resistance between earth electrode and soil.
Measurement Range	0 – 100 Ω	Suitable for standard earthing systems.
Resolution	0.01 Ω or 0.1 Ω	Depends on model type (analog or digital).
Test Voltage (Open Circuit)	2V to 15V AC (approx.)	Low voltage for safety.
Test Frequency	128 Hz – 136 Hz (typically)	Reduces electrical noise interference.
Test Current	Up to 10 mA (AC)	Safe for field use.
Accuracy	$\pm(2\%$ of reading + 2 digits)	Standard accuracy for field measurements.
Display Type	Analog scale or Digital LCD	Indicates resistance directly in ohms (Ω).
Range Selection	Auto or Manual	0–10 Ω , 0–100 Ω , 0–1000 Ω (multi-range models).
Earth Voltage Range	0 – 200 V AC	Measures stray ground voltage before testing.
Power Supply	Internal rechargeable battery or 6 $\times$ 1.5 V cells	Portable operation.
Test Leads	3 or 4 test wires (color-coded)	For E, P, and C terminals.

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Parameter	Typical Specification	Description
Operating Temperature	0°C - 50°C	Typical field range.
Safety Rating	IEC 61010 CAT III 600 V	Safe for field and industrial environments.
Protection Class	IP54 (dust and splash resistant)	Rugged for outdoor use.

Accessories Supplied:

- 2 Auxiliary earth spikes (stakes)
- 3 Test leads (red, yellow, green)
- Carrying case
- User manual and calibration certificate

Typical Measurement Setup:

[C1] -----[Test Current Spike]

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[P1] -----[Potential Spike]

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[E] ---[Earth Electrode Under Test]

Spacing between electrodes:

- C1-P1 $\approx$ 20 m - 30 m apart for accurate results.
- P1-E $\approx$ 10 m - 15 m apart.

Recommended Resistance Values:

Type of Installation	Ideal Earth Resistance
Power station/substation	$< 1 \Omega$
Industrial installation	$< 2 \Omega$
Commercial/residential	$< 5 \Omega$
Lightning protection	$< 10 \Omega$
Communication systems	$< 15 \Omega$
General testing range	0 - 100 Ω (as per your model)

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06. Digital Lux Meter 0-50000

Digital Lux Meter (0–50,000 Lux) — used for measuring light intensity levels in workplaces, studios, and laboratories. It is also known as **Light Meter / Illuminance Meter**.

Purpose:

A **Digital Lux Meter** measures **illuminance** — the amount of light falling on a surface, expressed in **Lux (lx)** or **Foot-Candles (fc)**.

It ensures proper lighting levels for:

- Industrial and office environments
- Photography and film studios
- Greenhouses and laboratories
- Quality control in lighting installations

Technical Specifications:

Parameter	Typical Specification	Description
Measuring Range	0 – 50,000 Lux (typical)	Measures a wide range of light levels.
Display Type	3½ or 4½ Digit LCD Display	Shows numeric reading up to 1999 / 9999 counts.
Resolution	1 Lux (0–999 Lux range)	Minimum measurable light intensity.
Accuracy	±(3% of reading + 10 digits)	Typical accuracy for standard lux meters.
Repeatability	±2%	Ensures stable readings.
Spectral Response	CIE Standard Photopic Curve	Matches human eye sensitivity.
Sensor Type	Silicon Photodiode with Filter	Converts light intensity into electrical signal.
Measuring Ranges (Auto or Manual)	0–2000 / 20,000 / 50,000 Lux	Auto or manual range selection available.
Overrange Indication	Display shows "OL"	Warns when light exceeds measurement range.
Sampling Rate	2–3 times per second	Measurement refresh rate.
Data Hold Function	Yes	Freezes displayed reading.
Zero Adjustment	Automatic or Manual	Adjusts baseline before measurement.
Backlight Display	Optional	For low-light environments.
Unit Conversion	Lux ↔ Foot-Candles (1 fc = 10.76 Lux)	Available on some models.
Power Supply	9V battery or 2×AA cells	Portable operation.
Operating Temperature	0°C – 40°C	Standard working environment.
Storage Temperature	-10°C – 50°C	Safe for storage.
Humidity	≤80% RH	Non-condensing operation.
Dimensions	Approx. 130 × 70 × 25 mm	Compact handheld size.
Weight	200 – 300 g	Lightweight and portable.


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Construction Features:

- Separate or integrated **photo sensor** with cable
- **Protective cap** for sensor
- **High-contrast LCD display**
- **Auto power-off** for battery saving
- Rugged **ABS plastic body**

Key Features:

- Wide measuring range: **0–50,000 Lux**
- High accuracy and fast response
- **Data hold and zero function**
- Lightweight and easy to operate
- Optional backlight and auto range
- Complies with **CIE photopic standard**

Applications:

- Indoor & outdoor **lighting surveys**
- **Office and factory illumination** checks (as per IS/OSHA standards)
- **Photography** and film lighting calibration
- **Classroom and hospital** light measurement
- **Horticulture** and greenhouse lighting control

Recommended Light Levels (as per standards):

Area / Application	Recommended Illumination (Lux)
Office Work	300 – 500 Lux
Classroom	200 – 500 Lux
Workshop / Factory	300 – 1000 Lux
Hospital / Laboratory	500 – 1000 Lux
Street Lighting	10 – 50 Lux
Studio / Photography	1000 – 10,000 Lux
Greenhouse	10,000 – 50,000 Lux

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