SPECIFICATION FOR BLACK BODY CALIBRATION SOURCE

Source to calibrate Infrared thermometer in the range of 50°C to 1000°C with suitable internal sensor. PID controller and digital display for displaying the black body set point & Cavity temperature.

Technical Specification:

Temperature Range: 100 to 1000°C

Emissivity: 0.99

Stability: Better than 1°C

Display: Bright bold temperature indication for set, block

and actual radiance temperature.

Accuracy: $\pm 2.0^{\circ}$ C Display resolution: 1° C

Cavity size: Between 10 and 75 mm.

Cavity Type: Removable to accommodate fixed-point cell to

carryout calibration as per ITS-90.

Warm up Time from ambient to 1000°C : 2 hours

Power : Single Phase 210-250 V AC 50Hz Traceable calibration : atleast at 3 point of the range. .

Mechanical details:

Dimensions: Compact table top Weight: Less than 10Kg

Accessories:

Operation manual Connecting supply cord

Spare fuses.

Factory Calibration Certificate

PLEASE NOTE:

- 1. The instrument offered can be better than the above specifications
- 2. Should have service facility in India to reduce the down time.
- 3. The product catalogue should contain only the product offered in depth preferably highlighting the model offered.
- 4. Two sets of original product catalogue to be enclosed with the offer.
- 5. Vendor should submit the offer with detailed specification of the product offered. The offers given as **"as per your specifications"** will be rejected.

SPECIFICATION FOR SOUND LEVEL METER

Portable Hand held Battery operated with frequency weighting and digital indication

Technical specification:

Measuring range: 40 to 130 dB

: 0.1 dB Resolution Accuracy : 2 dB

: 0.5" LCD minimum 31/2 digit Display

Sensor : Built in > 10 mm electrets condenser microphone

Error indication : over load

Frequency weighting: A, C and Linear Response : slow and fast : max hold facility Parameter Battery : standard batteries

: rechargeable Ni-MH batteries with suitable charger Preferable

Battery indicator: battery low indicator

Output : analog DC proportional preferable

Operating temp range: 0 to 40 deg C

Relative Humidity: 0 to 90% non condensing

: hand held Size : less than 1 kg Weight

Accessories : carrying protective case

> Wind shield Operating manual

Rechargeable batteries with charger Suitable batteries for operation

Apart from above, all necessary accessories to operate the

equipment to realize the above functions. Sound level calibrator 110dB at 1KHz

It is preferable to have a data logging facility with ability to transfer, view and analyze the data on a computer. Vendors can quote for both model with and without data logging facility.

NOTE:

- 1. The instrument offered can be better than the above specifications
- 2. Should have service facility in India with factory-trained engineers to take care of the equipment supplied, to reduce the down time.
- 3. The product catalogue should contain only the product offered in depth preferably highlighting the model offered.
- 4. Two sets of product catalogue to be enclosed with the offer in original
- 5. Offer without proper catalogue will be rejected
- 6. Vendor should submit the offer with detailed specification of the product offered
- 7. The offers given "as **per your specification"** will be rejected

SPECIFICATION FOR 3 TONGS POWER ANALYSER FOR PG TEST AUX POWER

General:

Portable hand held rechargeable battery operated 3-phase power analyzer cum data logger for 3 phase 3 wire and 4 wires measurement with phase sequence indication.

Technical specification:

ELECTRICAL

AC VOLT	True RMS 0 to 600 volts with a least count of 0.1 volt and with a basic accuracy of 0.5% ± 10 digits	
AC CURRENT	JRRENT 0 to 1000 amps with least count of 0.1 amp and with a basic accuracy of 1.0% \pm 20 digits	
POWER	Active, Reactive & apparent with an accuracy of 1.0% ± 20 digits	
POWER FACTOR	CTOR $ -1.000 \text{ to} + 1.000 \text{ with a basic accuracy of } 3.0\% \pm 30 \text{ digits}$	
FREQUENCY	47 to 53 Hz with a least count of 0.1 Hz and with a basic accuracy of 0.5% ± 10 digits	
DATA LOGGING	Minimum 5 hours with a sampling time 1 second. Also with suitable software and connectivity to external PC	
DISPLAY	Bright bold mlti LCD for all parameters with selectable back lighting	
SUPPLY	Built in rechargeable Ni MH batteries and charger suitable for 230V AC	

OPERATING ENVIRONMENT:

Temperature : 0 to 50 deg C Relative Humidity : up to 0% non condensing

MECHANICAL

: Hand held operation Size : less than 1 Kg Weight

ACCESSORY:

4 test leads with alligator clips for voltage measurement 4

current clamps

PC interface cable & software

Carrying case

Instruction/ operating manual Factory calibration certificate.

NOTE:

- 1. The instrument offered can be better than the above specifications
- 2. Should have service facility in India with factory-trained engineers to take care of the equipment supplied, to reduce the down time.
- 3. The product catalogue should contain only the product offered in depth preferably highlighting the model offered.
- 4. Two sets of product catalogue to be enclosed with the offer in original
- 5. Offer without proper catalogue will be rejected
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SPECIFICATION FOR PENN WALT HIGH ACCURACY STANDARD GAUGE

General Specification

Wallace & Tierman Pennwalt 'series 1500, 81/2" dial high accuracy pressure gauges with knife edge pointer and anti parallax error mirror covering the full scale in tow revolutions such that the least count measurable is 0.02 % of full scale. Bold graduations & numbers horizontally placed to make observation easy.

Technical Specification:

Range : 0 to 1 kg Absolute (for vacuum measurement)

: 0 to 1 Kg : 0 to 2 Kg : 0 to 4 Kg : 0 to 6 Kg

Accuracy : 0.066% of FS Repeatability : 0.03% of FS

Temperature compensated

Hysterisis : 0.1% of FS

Thermal effect : 0.1 % of FS per 10°C with respect to 25°C Reference

temperature

Scale length : approx 45" through 2 pointer revolutuion

Gauge dial meter : 81/2 "

Case Pressure : Open to atmosphere

Gauge case : Metal case with tempered glass.

Zero adjustment : Easily accessible from front and back of gauge

Medium : Air

Process Connection : 1/2 " BSP male through proper adaptor of stainless steel. Additional Adaptor : M20 x 1.5 male to 1/2 " BSP female adaptor of stainless steel

The above item is to be supplied with vibration protected padded wooden box to carry the instrument safely from one site to other.

PLEASE NOTE:

The instrument offered can be better than the above specifications

Should have service facility in India to reduce the down time.

The product catalogue should contain only the product offered in depth preferably highlighting the model offered.

Two sets of original product catalogue to be enclosed with the offer.

Vendor should submit the offer with detailed specification of the product offered.

The offers given as "as per your specifications" will be rejected.

SPECIFICATION FOR THEODOLITE

S.N	Name of	Specification	purpose	Qty
0	equipement.			
01	THEODOLITE.	Total station – max'm flexibility. - angular measrement. - Infrared Distance measurement. - Reflectorless distance measurement. - Accuracy 7" / 5" / 3". - Telscope Magn. 30X. - Distance Measuremt Infrared laser. - Range to leica prism 3500m. - Range of tape 250m. - Accuracy time per measurement. Range RL80m; (TCR) 170m. - Accuracy normal mode 3mm +2ppm/sec. - Display type Alphanumeric 8 lines x 32 characters. - Slope senser / 2axis Compensator. - Laser plummet. - Weight 5kg including battery. - Working environment, - 20 c to + 50 c.dust / water IP54. - Construction total stn for all round measurements.	Checking of columns at height of 100 Mts and collimation alignment of lines.	01
1		all round measurements.		

SPECIFICATION FOR PARAGON JIG TRANSIT.

01	PARAGON JIG	Equiped with right angle eyepiece	Checking of	01
	TRANSIT.	&Autocollimation SPECFITN:	verticality as well	
		- MAIN TELESCOPE	as alignment	
		- Length 11.25"	readings.	
		- Magnification 30x.		
		- Focus range 8"		
		- revoling power 4 second of		
		Arc.		
		- Field of view 55 minutes at		
		infinity.		
		- Effective aperture 30 mm		
		- Eye piece revoling blank &		
		Autocollimation.		
		- Cross axis telescope 13"		
		long. With achromatic.		
		- Magnification 28x.		
		- Revoling power 4 second Arc.		
		- Field view 50.5 minutes at		
		infinity.		
		- Effective aperture 21mm.		
		- Rectile All urpose, double		
		glass,dust		
		proof, crosspattern with		
		single lineintwo quadrant.		
		- Height 13"		
		 Center cylindrical, with 		
		high precision thrust ball		
		brg mounted.		
		- Level telescope: sensitivity		
		of 20 second of Arc / 2mm		
		movement.		
		- Screws levelling. Four with		
		precision generated threads		
		fully enclosed.		
		- Tangent two speed fine motionfor both azimuth &		
		elevation motions.		
		- Weight 37 Lbs.		
		- Pargoan Jig Transit &		
		TELESCOPE SQUARE		
		with horizontal axis		
		telescope		
		•		