

पत्रांक संख्या / आपूर्ति / 95-1-2-2020) / ..... 6.3.3.....

**बिहार पुलिस मुख्यालय,**  
(आधुनिकीकरण, अपराध अभिलेख एवं प्रोविजन प्रभाग)

पटना, दिनांक- 02/09/20

सेवा में,

**निदेशक,**

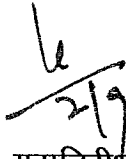
सूचना एवं जनसम्पर्क विभाग,  
बिहार, पटना।

**विषय- निविदा आमंत्रण सूचना सं0-06/2020-21 के प्रकाशन के संबंध में।**

निदेशानुसार उपर्युक्त विषय के संबंध में निविदा आमंत्रण सूचना सं0-06/2020-21 की प्रतियाँ भेजते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी0आर0डी0 वेबसाइट पर भी प्रसारित करने की कृपा की जाय।

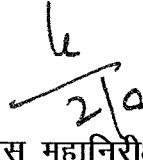
इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

**अनु0-यथोपरि।**

  
पुलिस महानिरीक्षक के सहायक (क्यू0),  
बिहार, पटना

**प्रतिलिपि:-**

1. आई0टी0 मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis @nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

  
पुलिस महानिरीक्षक के सहायक (क्यू0),  
बिहार, पटना

**Police Headquarters, Bihar, Patna**  
**Notice Inviting Tender No.-06/2020-21**

1. Name of the Department: Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the tender : 25/09/2020, Till 02:00 PM
3. Date & time fixed for the opening of the tender : 25/09/2020, At 04:00 PM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job:

S.N.	Item name	Quantity
1	60 Ft. Self Supported Tower	28
2	100 Ft. Self Supported Tower	09
3	Power Supply Cum Charger	1000
4	Digital Radio Communication Test Set	01
5	Soldering De-Soldering Station	01
6	Digital Oscilloscope up to 1 GHz	01
7	Hot Gun for repair of Wireless set	09
8	Standard Tool Kit Bok	13
9	40 Feet Telescopic Aerial Mast	06
10	Digital Multi Meter	26
11	Lap Top for training centre with required softwares	01
12	RF Power Meter	05

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website [www.prdbihar.gov.in](http://www.prdbihar.gov.in) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in).

/s/ 2/9/20

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Bihar, Patna

## Terms & Conditions of Tender No.-06/2020-21

1. The tender should be submitted in two parts: (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
2. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
3. The rates of the items shall be quoted in the Financial Bid only.
4. All charges like IGST/CGST/SGST etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
5. The rates of the items shall be quoted in the Financial Bid in two parts :  
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
6. There should be no cutting, over writing or correction on the rates.
7. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
8. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
9. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Tender No-06/2020-21 (Technical Bid) and Tender No-06/2020-21 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Tender No-06/2020-21. **This envelope should not bear the name and address of the firm.**
10. Income Tax Returns of last three years, a photocopy of GST registration number of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
11. The turnover of the firm for the last reported financial year should be at least equal to the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
12. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
13. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
14. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.
15. In case of Bullet Proof/Bullet Resistant items, test report of TBRL or any Government Approved/Recognized Laboratory is compulsory.

16. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
17. Firms participating in this tender shall also submit the self attested list of users of its equipments.
18. All items shall be received at Central Clothing Store, Patna; therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
19. Firms will have to deposit a sum of Rs. 50,000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favor of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organization/State Purchase Organization and National Small Industries Corporation (NSIC).
20. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
21. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
22. Any paper/document will not be accepted after opening the tender.
23. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
24. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
25. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
26. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
27. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
28. It is expected to submit the duly filled chart attached herewith, along with the technical bid if not the tender shall be summarily rejected.
29. Indexing of the requisite documents must be done and submitted along with the technical bid.
30. Hands on training for 3 weeks of the equipment must be imparted to the user group by the firm after successful installation.
31. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
32. The Quantity indicated may increase or decrease at the time of issuing purchase order.
33. The bids must be include the data sheet of individual item.

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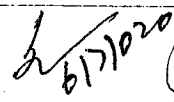

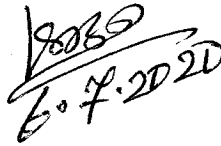

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**Bihar, Police.**

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### TECHNICAL SPECIFICATION OF 60 FEET SELF SUPPORTED TOWER

SL NO.	Technical Specification	
1	Height	60 feet from Ground base
2	Type	Self supported.
3	Dimensions	(a) Base – 11 feet SQR (b) Top – 2 feet SQR
4	Wind velocity	165 KM per hour
5	Ladder	From outside base to top with one feet wide steps.
6	Platform	One 4' x 4' at every internal & last one 2 below the top.
7	Materials	Mild steel/Galvanized/TATA/SAIL
8	Size of Angle	75 x 75 x 6 mm 65 x 65 x 6 mm 50 x 50 x 6 mm 40 x 40 x 6 mm 35 x 35 x 5 mm ½ inch iron rod 50x50x6 mm Patti and Nuts, Bolts etc.
9	Earthing	5 ft deep and 1 ½ SQR earth plate with salt and charcoal and bare copper wire 8 SWG tied with Earth tied Earth plate to Tower leg.
10	Aviation Lamp	On the top of the Tower wiring from Tower mains with 1 mm PVC wire in plastic pipe.
11	Lightning arrestor	6 KVA on the top of of the Tower.
12	Foundation	Complete aeration and installation of RCC foundation base 5 ½ deep 3'x 3' bottom, 2'x 2' top for every leg and above the ground.
13	Provision	Arrangement for installation of VHF/UHF/Micro Link antenna should be provided with hot deep Galvanized clamp.
14	Finish	Two coat red/white paint super enameled painting over one coat primer.
15	Warranty	Minimum FIVE year on the comprehensive from the date of installation.
16	Other	Other clarification (if so desired) may be obtained from the office.

# TECHNICAL SPECIFICATION OF 100 FEET SELF SUPPORTED TOWER

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SL NO.	Technical Specification	
1	Height	100 feet from Ground base
2	Type	Self supported.
3	Dimensions	(a) Base – 11 feet SQR (b) Top – 2 feet SQR
4	Wind velocity	165 KM per hour
5	Ladder	From outside base to top with one feet wide steps.
6	Platform	One 4' x 4' at every internal & last one 2 below the top.
7	Materials	Mild steel/Galvanized/TATA/SAIL
8	Size of Angle	75 x 75 x 6 mm 65 x 65 x 6 mm 50 x 50 x 6 mm 40 x 40 x 6 mm 35 x 35 x 5 mm ½ inch iron rod 50x50x6 mm Patti and Nuts, Bilts etc.
9	Earthing	5 ft deep and 1 ½ SQR earth plate with salt and charcoal and bare copper sire 8 SWG tied with Earth tied Earth plate to Tower leg.
10	Aviation Lamp	On the top of the Tower wiring from Tower mains with 1 mm PVC wire in plastic pipe.
11	Lightning arrestor	6 KVA on the top of of the Tower.
12	Foundation	Complete aeration and installation of RCC foundation base 5 ½ deep 3'x 3' bottom, 2'x 2' top for every leg and above the ground.
13	Provision	Arrangement for installation of VHF/UHF/Micro Link antenna should be provided with hot deep Galvanized clamp.
14	Finish	Two coat red/white paint super enameled painting over one coat primer.
15	Warranty	Minimum FIVE year on the comprehensive from the date of installation.
16	Other	Other clarification (if so desired) may be obtained from the office.

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# Power Supply Cum Battery Charger (P.S.U)

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## Specification:-

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A.C Input voltage Range	170-270V AC $\pm$ 1
D.C Output Voltage	13.5 Volt
D.C O/P Current Equipment	15 amp
Operating Temp	0.50° C
Transformer/SMPS System	
Front Panel VOLT/Amp Indication	Must be available
Fuse Protection	Must be available
Warranty	1 year
Repairing Technical Circuit	Must be provided by supplier

*Handwritten signatures and dates:*  
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RADIO COMMUNICATION (ANALOG & DIGITAL) SET Consisting of:

1. RF Signal Generator
2. RF Power Meter
3. Audio Frequency Counter
4. SWR Meter
5. Distortion meter
6. Audio Function Generator
7. Oscilloscope
8. Digital Multimeter
9. Channel Analyzer
10. Tracking Generator
11. Frequency Counter
12. Frequency Error Meter
13. Signal Strength Meter
14. Antenna and Cable Fault Locator
15. SNR Meter
16. DMR Radio Test Facility
17. DMR Repeater Test

S. No.	Parameters	Specifications
1.	General Characterization	
	a. Operating voltage	AC 220+10% @50Hz, DC: 24/12V Internal/External
	b. Display Size	Minimum 6" full color LCD or Better
	c. USB port	Should be available
	d. Ethernet	Should be available
	e. Calibration Support	Calibration facilities should be available in India free of cost during the guarantee/warranty period
	f. Field up gradations	<ol style="list-style-type: none"> <li>i. The product should field upgradable to other Digital Technologies such as P25 Phase I &amp; II testing, DMR Radio with repeater, NXDN, dPMR, PTC.</li> <li>ii. The equipment should be capable of performing tests of digital/analog radio set and contain all functionalities in one stand-alone unit.</li> <li>iii. Service support should be available in India.</li> </ol>
2.	Signal Generator For receiver test	
	a. Frequency Range	.250KHz to 1GHz or better
	b. Frequency Resolution	1Hz or better
	c. Output level range	T/R Port: -50 to -125dBm Gen Port: -5 to -65 dBm
	d. Resolution	0.1dB or better
	e. Port protection limit	<ol style="list-style-type: none"> <li>a. T/R Port: 50W for 5 Minutes and 150W for 30s</li> <li>b. Antenna Port: +20 dBm with warning above +17dBm</li> <li>c. Gen Port: +20 dBm with warning above +17dBm (Remove power immediately when alarm sounds)</li> </ol>
	f. Harmonics	-20dBc Max or better
	g. Non-Harmonics	-30dBc Max or better
2.1.	Modulation	
	a. Selection Mode	OFF, AM, FM
	b. Waveforms	Sine
2.2.	FM Modulation	
	a. Deviation Range	0 to +75KHz or better
	b. Deviation accuracy	5% of setting
	c. Resolution	10Hz or better
	d. Modulation range	DC to 20KHz or better

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SRS/Specification or Radio Comm Test Set (Analog/Digital)		
S.No.	Parameters	Specification
2.3.	<b>AM Modulation</b>	
	a. AM depth range	0-100% or better
	b. Accuracy	Up to 10%
	c. Modulation Bandwidth	DC to 20 KHz or better
3.	<b>Receiver (Transmitter test)</b>	
	a. Frequency range	250KHz to 1GHz or better
	b. Demodulation selection	OFF, AM, FM
	c. Signal Code	1KHz tone, Private line, Digital Private line, Single tone, Two-tone paging, 3/6 tone paging, POCSAG, external input from both supplied microphone and BNC input.
	d. Sensitivity	Less than -25dBm (10dB SINAD) or better
3.1.	<b>Demodulation Measurement</b>	
	a. FM Deviation	Range; 500Hz to 75KHz or better
	b. Accuracy	±3%
	c. Range	20Hz to 20KHz
	d. AM Deviation	Range; 5% to 100%
	e. Accuracy	Up to 5%
4.	<b>RF Power Meter</b>	
	a. Range 0.10 to 125Watt, Resolution 0.01W	
	a. VSWR (with attenuator <10dB): Better than 1.20:1	
5.	<b>Signal to Noise Ratio Meter</b>	
	a. Frequency range	300Hz to 3KHz or better
	b. Range	-80dB to 0 dB or better
6.	<b>Audio Frequency Counter</b>	
	Range	20 to 20KHz
	Wave Shape	Sine or Square
7.	<b>SINAD meter</b>	
	a. Frequency range	300Hz to 3KHz or better
	b. Accuracy	±1.5dB
	c. Range	0 to 50dB or better
8.	<b>Distortion meter</b>	
	a. Distortion range	1% to 50% or better
	b. Freq range	300Hz to 3KHz
	c. Resolution	10% or better
9.	<b>Audio Generator</b>	
	a. Frequency Range	Sine; DC to 20KHz or better
	b. Level range	0 to 1.57 Vrms
	c. Modulation type	1KHz tone, Single tone, DTMF, Two-tone paging etc.
10.	<b>Oscilloscope</b>	
	a. Frequency range (vertical)	100 to 5KHz or better
	b. Input range (vertical)	10mV to 10 V
	c. Accuracy (vertical)	10% of full scale
	d. Accuracy (Horizontal)	3% of full scale
	e. Marker Functions	Time with Amplitude, deviation or % depth
11.	<b>Digital Multimeter</b>	
	a. Voltage Range	200mV to 1000V, or more (150VAC rms or VDC max input)
	b. AC voltage freq range	50Hz to 10KHz
	c. Accuracy	AC +5% full-scale ±1 LSB DC ±1% full scale ±1 LSB
	d. AC/DC ampere meter	200mA to 20A or better Auto (20A range uses optional shunt connected to voltmeter)
	e. Resolution	3 digit or more (up to 2000 Counts)
	f. Ohmmeter	Full scale range: 200 Ohms to 20Mohms, Auto
12.	<b>RF Spectrum Analyzer</b>	
	a. Frequency range	2MHz to 1 GHz
	b. Frequency resolution	1Hz
	c. Span	10 KHz to 5 MHz

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	d. Noise Floor	-140 dBm
13.	<b>Tracking generator</b>	
	a. Tracking generator output	Refer to RF Spectrum Analyzer section for: - Frequency range and accuracy - Output level range, resolution and accuracy
	b. Tracking generator controls	Output port selection, RF level, reference cal
14.	<b>DMR Radio Technology</b>	
	a. RF Signal Generator	250KHz - 1GHz or better
	b. Output level	Same as in case of signal generator
	c. Modulation	4-FSK
	d. Test Pattern	STD IB 1030, STD IB CAL, STD IB 511 (.153)
	e. Duplex Radio/Repeater	Testing facility should be available
	f. Vocoder test	Vocoder testing facility should be available
14.1.	<b>DMR Measurement FSK-Error</b>	<b>Test Facility should be available</b>
	a. Range	0 to 10%
	b. Resolution	0.1%
	c. Accuracy	<5.0% of reading
14.2.	<b>Symbol Deviation</b>	
	a. Range	1745 to 2140 Hz
	b. Resolution	0.1 Hz
	c. Accuracy	+/- 10 Hz
14.3.	<b>Symbol clock Error</b>	
	a. Range	+/- 12ppm
	b. Resolution	0.01 pm
	c. Accuracy	+/- 1 ppm
14.4.	<b>DMR Repeater Test</b>	<b>Test Facility should be available</b>
15.	<b>Environmental and Safety Standard</b>	
	a. Operating temperature	0 to 45 degree Celsius (in accordance with MIL PRF - 2880F Class-3)
	b. Storage Temperature	-20 to 60 degree Celsius
	c. Relative Humidity	75% up to 30 degree Celsius
	d. Safety Standard	UL61010B-1, EN61010-1, CSA C22.2 No-61010-1 or equivalent.
16.	<b>Accessories</b>	
		All required accessories for testing all parameters of equipment and User/Maintenance Manual must be provided.
		BNC Male to TNC Male cable
		N Male to BNC Female Adapter
		TNC Male to BNC Female Adapter
		Operational Manual Hard/Soft Copy
		Power Cord
		Technical Manual Hard/Soft Copy
		Antenna
		Microphone
		Oscilloscope Probe
		24V to 12V converter
		Soft carry case
		Remote front Panel

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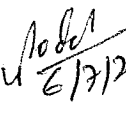
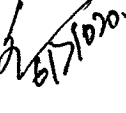

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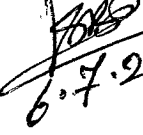
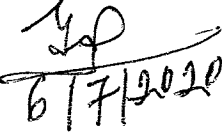
# Soldering & Desoldering Station

## Specification:-

Model		
Voltage		220-240 V AC 50/60 Hz
Power Consumption		670-760W
Power Cord Length		1.5 m Inlet type
Temp. Setting Range	Desoldering Unit	250-450° C
	Soldering Unit	200-480° C
	Rework	150-550° C
Insulation Resistance		Over 10M Ohm (500 V DC)
Vacuum Pump System		Diaphragm system
Vacuum		-0.08 MPa (-600mmHg)
Air Flow		5-25L/Min
Accessories		Cleaning pin TP-100cp-13/Soldering
Total Weight		9.3 kg

CONTROL BOX	
Output Voltage	220-240V
Dimensions	405W
Weight	8.4 kg

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TECHNICAL SPECIFICATION FOR MIXED SIGNAL OSCILLOSCOPE

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THE OSCILLOSCOPE SHOULD HAVE FOLLOWING FEATURES:-

- i) No. of Channels : 2
- ii) Bandwidth : 1 GHz
- iii) Vertical Resolution : 8 bit, 12 bit in High resolution mode or better.
- iv) Maximum Input : 300 Vrms, 400 Vpk or better.
- v) Input Sensitivity : 1 mV/div – 5 V/div or better.
- vi) Input Impedance : 1 MΩ / 50 Ω Selectable.
- vii) Calculated Rise Time : ≤ 450 ps or better.
- viii) Input Coupling : AC, DC.
- ix) Time Base Range : 5nsec/div to 50 sec/div.
- x) Trigger System : Edge, Pulse Width, Pattern, Duration, TV, Sequence.
- xi) Max. Sampling Rate : 5GSa/s all channels, 2.5 GSa/s half channel or better.
- xii) Max. Memory Depth : 4Mpts. Standard Segmented Memory or better.
- xiii) Peak Detect : 250 pS or better at all-time base settings
- xiv) Waveform Update Rate : Up to 1,000,000 waveforms/sec or better.
- xv) Measurement : Peak-to-peak, maximum, minimum, amplitude, top, base, overshoot, pre-shoot, average- N cycles, average- full screen, DC RMS- N cycles, DC RMS- full screen, AC RMS- N cycles, AC RMS- full screen (standard deviation), ratio- N cycles, ratio- full screen, Period, frequency, counter, + width, - width, burst, width, duty cycle, bit rate, rise time, fall time, delay, phase, X at min Y, X at max Y, Positive pulse count, negative pulse count, rising edge, count, falling edge count, Area- N cycles, area- full screen
- xvi) Counter voltmeter : Built-in 8 digit frequency counter & 3-digit digital
- xvii) Display System : 8.5 inch, WVGA Colour TFT LCD or better.
- xviii) Built in Interface Output : USB 2.0 high speed device. Optional LAN & Video for external monitors
- xix) Warranty : 3 years

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TECHNICAL SPECIFICATION OF 40 FEET TELESCOPIC AERIAL MAST

254

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Features:-

1. 4 Sections each of 16 gauge inner, 18 gauge outer section.
2. Mast should collapse down to 10 feet in length and can be extended up to 40 Feet in height .

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# Digital Multi-Meter

253

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## Specification:-

Display (Digit)	3.5 Digit LCD
Range	Auto and Manual for voltage(1000V-AC/DC) Current(10A-AC/DC), Resistance(50 Mega Ohm), Frequency (100KHz), Micro-Amp, Milli-Amp, measurement
Polarity	Automatic, Negative Polarity Indication
Zero Adjustment	Automatic
Over Range Indication	OL (Open Loop) is Displayed except in 1000V DC 750 V AC 10 Amp AC/DC Range
Low Battery	Mark Turns ON
Power Supply	Two standard 1.5 V AA Battery
Battery Life	200 Hrs
Buzzer	For Testing of continuity Function
warranty	1 Year

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### Digital RF Power Meter

#### Specification:-

Power Range	0.5 W to 100 W
Frequency Range	25 MHz to 16 GHz
Accuracy	+/- ( 4 % of reading + 0.05 W) between 20° C and 35° C temp
VSWR Range	1.15 to 99.9
insertion VSWR	1.10 Max
insertion Loss	0.1 Db
Battery	Up to 60 hours continuous usage
Compliance	EMC EN 61326-1:2006
Data Logging	Up to 7 days of onboard memory
Environmental	Military Standards MIL-PRF-28800F, Class 2

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Technical Specification of Laptop Computer

1. 9th. generation Intel Core i5 9300 H
2. 8 MB Cache, up to 4.1 GHz 4 Cores
3. Windows 10 Home Single Language English
4. 8 GB, 1x8 GB , DDR4, 2666MHz
5. 500 12 GB M. 2PCIe NVMe Solid State Drive
6. Silver / Black LCD Cover
7. Platinum Silver (ICC) - Wi-Fi
8. With Wireless Mouse

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