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Government of West Bengal

Office of the Addl. Director General & Inspector General of Police

Telecommunication, West Bengal,

3 Manik Bandyopadhyay Sarani (Moore Avenue), Tollygunge, Kolkata 700 040

Phone: 033-2377-0400 / 1701, Fax: 033-2311-0651

O.C. Computer
WBPD, 13/8/18

Please take
n/a.
Date
29/3/18

Memo No 1211(13)/P

Date - 27/03/18

- To:
- 1) The Commissioner of Police, Kolkata Police, Lalbazar, Kolkata - 700 001.
 - 2) The Commissioner of Police, Bidhannagar Police Commissionerate, Salt Lake Stadium Complex, Gate No - 3, Kolkata - 700 098.
 - 3) The Commissioner of Police, Barrackpur Police Commissionerate, Barrackpur.
 - 4) The Commissioner of Police, Howrah Police Commissionerate, Howrah.
 - 5) The Commissioner, Kolkata Municipal Corporation, 5, S N Banerjee Road Kolkata - 700 013.,
 - 6) The District Magistrate, South 24 Parganas, Alipur, Kolkata - 700 027.
 - 7) The District Magistrate, North 24 Parganas, Barasat.
 - 8) The District Magistrate, Howrah, Howrah - 7111 01.
 - 9) The Senior Supdt of Police (Co-ordination), South 24 Parganas, Alipur, Kolkata - 700 027.
 - 10) The Senior Supdt of Police (Co-ordination), North 24 Parganas, Barasat.
 - 11) The Sub-divisional officer, South 24 Parganas, Alipur, Kolkata - 700 027.
 - ✓ 12) O/C Control Room WBPD for WBP Website
 - 13) Notice Board, West Bengal Police Telecom HQ.

Sub: - Quotation for Instrument.

Sealed Quotation is being invited for procurement of the following instrument from the OEM / OEM authorized dealers or distributors etc who has quotation specific authorization (desirable).

Sl No.	Instrument	Quantity required
1	<p>70MHz Dual Channel Digital Storage Oscilloscope</p> <p>Specification:</p> <p>ACQUISITION</p> <p>Sample Real-Time Sample : 1GS/s;</p> <p>Equivalent Sample: 25GS/s.</p> <p>Acquisition Modes : Normal, Peak Detect, High-frequency and random, glitch capture, Average selectable 4, 8, 16, 32, 64, 128.)</p> <p>Input Coupling : AC, DC, GND</p> <p>Input Impedence: 1MW±2%, 20pF ±3pF.</p> <p>Probe Attenuation: 1X, 10X (two sets of Spare Probes)</p> <p>Input Voltage: CAT I and CAT II : 300V RMS (10X); Installation Category III : 150V RMS (1X); Installation Category II : derate at 20dB/decade above 100kHz to 13V peak AC at 3MHz and above. For non-sinusoidal waveforms, peak value must be less than 450V. Excursion above 300V should be of less than 100ms duration. RMS signal level including all DC components removed through AC coupling must be limited to 300V. If these values are exceeded, damage to the oscilloscope may occur.</p>	02(two)

HORIZONTAL:-

Record Length : 24K.

SEC / DIV Range: 4ns/div to 40s/div, in a 2, 4, 8 sequence.

Sample Rate and Delay Time Accuracy: ± 50 ppm (at over any =1ms time interval). Position Range : 20ns/div to 80us/div; (-8div x s/div) to 40ms; 200j/s/div to 40s/div; (-8div x s/div) to 400s;

Delta Time Measurement: Single-shot, Normal mode : \pm (1 sample interval + 100ppm x reading + 0.6ns); Accuracy (Full Bandwidth) >16 averages : \pm (1 sample interval + 100ppm x reading + 0.4ns); Sample Interval = s/div 200.

VERTICAL:-

Vertical Resolution: 8-bit resolution, all channel sampled simultaneously.

Volts / Div Range : 2mV/div ~ 5V/div.

Position Range: 2mV/div to 200mV/div; ± 2 V; 200mV/div to 5V/div; ± 50 V.

Bandwidth: 70MHz,

Rise Time at BNC (Typical) : 5ns

Math Functions : +, -, *, \div , FFT.

FFT Windows : Hanning, Flatop, Rectangular, Bartlett, Blackman; 1024 sample point.

Bandwidth Limit: 20MHz.

TRIGGER

Trigger Types: Edge, Video, Pulse, Slope, Overtime, Alternative

Trigger Source: CH1, CH2, EXT, EXT/5, AC Line

Trigger Modes: Auto, Normal

Coupling Type : DC, AC, Noise Reject, HF Reject, LF Reject

Trigger Frequency Counter: Readout Resolution 6 digits.

Accuracy (Typical) : ± 30 ppm (including all frequency reference errors and ± 1 count errors).

Cursor Measurement Manual :

Voltage difference between cursors : DV;

Time difference between cursors : DT;

Reciprocal of DT in Hertz : (1/DT);

Tracing : The voltage and time at a waveform point

Auto Measurement: Frequency, Period, Mean, Pk-Pk, Cycle RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay 1-2 Rise, Delay 1-2 Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Period Mean, Period RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF

Display Type : 7" 64K color TFT (diagonal liquid crystal).

Display Resolution: 800 horizontal by 480 vertical pixels

Input Supply Voltage: 120 - 240V AC RMS ($\pm 10\%$), 45Hz to 66Hz, CAT II.

Power Consumption <30W.

Operational Manual must be supplied with the equipment##


Effective demonstration with our existing VHF sets should be arranged at this office

The Quotation should be addressed to the Addl. Director General & Inspector General of Police, Telecommunication, West Bengal, 3, Manik Bandyopadhyay Sarani (Moore Avenue), Kolkata - 700 040 in sealed cover, with a superscription "Quotation for Instruments" and should reach this office by 1400 hrs on 10/4/2018 (10th April, 2018). Quotation will be opened on the same day at 1500 hrs.

While quoting the price, the unit price of the item must be mentioned and the bids should accompany with the Photo Copy of the latest PAN, Trade License, PTax and GST registration certificate.

The authority concerned reserves the right to cancel any or all the Quotation without assigning any reason.

This may kindly be given wide publicity.


Addl. Director General
& Inspector General of Police,
Telecommunication, W.B.