

Rate Contract
Government of India
Directorate General of Supplies & Disposals
Jeevan Tara Building, 5 Sansad Marg
New Delhi-110001
Tel Number 23360610/23360537

Digitally signed by:
Shashi Kiran Sud
Email Id:
sksud@dgsnd.com.in

Rate Contract no. Oscope/IT-3/RC-D2040000/0312/83/F0710/1729
Dated 24-MAR-11

To,

SYNERGY MEASUREMENT TECHNOLOGIES PVT. LTD.
25/C, Nicholson Road, Tarbund, Secunderabad-500009 (AP)

E-mail: debashis@synergytech.in
Tele No. 040-44444040/50/35
Mr. Debashis: 09830067183

Sub: Rate Contract for supply of Oscilloscopes
Validity: From 01-APR-11 To 31-MAR-12 .

Ref:(1) This Office Tender Enquiry No. Oscope/IT-3/RC-D2040000/0312/83
Opened on 01-DEC-10.
(2) Your Quotation No. And Dated

Dear Sir,

You are hereby informed that your above referred tender read with subsequent letters mentioned above for the Stores specified in the Schedules annexed has been accepted. This rate contract will be governed by the terms and conditions brought in the Form no. DGS&D 1001 available from dgs&d sales counter on payment of Rs. 50/- .The Rate Contract and the schedules annexed here to shall be the sole repository of this Rate Contract/Transaction.

SCHEDULES ANNEXED

- 1.Schedule "A" Description of stores,prices,duties/taxes.
- 2.Schedule "B" special conditions of contract / Other information.
- 3.Schedule "C" Information to DDOs about parallel rate contracts.
- 4.Annexure - Technical Specification

Yours Faithfully,



Assistant Director(S)/Section Officer/Dy.Director
For and on behalf of the purchaser named in the Form DGS&D 1001.

COPY TO:

- 1.The Chief Controller of Accounts,Department of commerce,New Delhi/
COA Mumbai/COA Kolkata,COA Chennai.
(Through authentication cell) This issues with the approval of competent authority.
- 2.Deputy Director General of Supplies & Disposals,Chennai -10 copies each
- 3.Deputy Director General of Supplies & Disposals,Kolkata -10 copies each
- 4.Deputy Director General of Supplies & Disposals,Mumbai -10 copies each
- 5.Deputy Director General (QA),Kolkata -10 copies each
- 6.Deputy Director General (QA),Chennai -10 copies each
- 7.Deputy Director General (QA),Mumbai -10 copies each
- 8.Deputy Director General (QA),DGS&D -10 copies each
- 9.Inspection Authority ADG(QA) DGS&D New Delhi - 110001.
- 10.Quality assurance Officer Director (QA) Delhi Directorate/ Mumbai,Chennai/Kolkata.
- 11.Concurrent Audit
- 12.MIS Cell
- 13.Ledger clerk
- 14.O.L.Section
- 15.All Direct Demanding Officers as per mailing list maintained by DGS&D.



Assistant Director (S) / Section Officer / Deputy Director
FOR DIRECTOR GENERAL OF SUPPLIES & DISPOSALS



SCHEDULE - A

1. Rate Contract No.: -Oscope/IT-3/RC-D2040000/0312/83/F0710/1729
Dated 24-MAR-11 For the Supply of Oscilloscopes

2. Advance Rate Contract No.: - Nil
Dated

3.(a) Name and Full Address of the Firm :-

SYNERGY MEASUREMENT TECHNOLOGIES PVT.
LTD.
25/C, Nicholson Road, Tarbund, Secunderabad-500009 (AP)

E-mail: debashis@synergytech.in
Tele No. 040-44444040/50/35
Mr. Debashis: 09830067183

ANDHRA PRADESH - 500015
Tel. No. - 040 27990486
Fax - 040 27794388
Email - sales@synergytech.in

(b) Name and Full Address of Manufacturer :-
As per Schedule B

(c) Brand: AGILENT TECHNOLOGIES

4. Validity of Rate Contract: 01-APR-11 To 31-MAR-12

5. Description of Item, Specification, Unit, Rate

Item Model No.	Store Description		Unit	Rate (in Rs.)	No.
9	Agilent DSO1002A Digital Storage Oscilloscopes	Bandwidth: 60 MHz, No. of Channels: Two, Display: Colour	NOS.	38880 Rs. THIRTY-EIGHT THOUSAN D EIGHT HUNDRED EIGHTY ONLY	
10	Agilent DSO1012A Digital Storage Oscilloscopes	Bandwidth: 100 MHz, No. of Channels: Two, Display: Colour	NOS.	49359 Rs. FORTY-NINE THOUSAN D THREE HUNDRED	



11	Agilent DSO1014A	Digital Storage Oscilloscopes	Bandwidth: 100 MHz,No. of Channels: Four,Display: Colour	NOS.	FIFTY- NINE ONLY 78588 Rs. SEVENTY- EIGHT THOUSAN D FIVE HUNDRED EIGHTY- EIGHT ONLY
12	Agilent DSO1022A	Digital Storage Oscilloscopes	Bandwidth: 200 MHz,No. of Channels: Two,Display: Colour	NOS.	88102 Rs. EIGHTY- EIGHT THOUSAN D ONE HUNDRED TWO ONLY
13	Agilent DSO1024A	Digital Storage Oscilloscopes	Bandwidth: 200 MHz,No. of Channels: Four,Display: Colour	NOS.	118400 Rs. ONE LAKHS EIGHTEEN THOUSAN D FOUR HUNDRED ONLY
15	Agilent DSO5034A	Digital Storage Oscilloscopes, High Performance	Bandwidth: 300 MHz,Memory: 10 K,No. of Channels: Four,Display: Colour	NOS.	321452 Rs. THREE LAKHS TWENTY- ONE THOUSAN D FOUR HUNDRED FIFTY- TWO ONLY
17	Agilent DSO5054A	Digital Storage Oscilloscopes, High Performance	Bandwidth: 500 MHz,Memory: 10 K,No. of Channels: Four,Display: Colour	NOS.	471589 Rs. FOUR LAKHS SEVENTY- ONE THOUSAN D FIVE HUNDRED EIGHTY- NINE ONLY
18	Agilent DSO5054A with 8M	Digital Storage Oscilloscopes, High Performance	Bandwidth: 500 MHz,Memory: 8 M,No. of Channels: Four,Display: Colour	NOS.	535859 Rs. FIVE LAKHS

		memory.				THIRTY-FIVE THOUSAN D EIGHT HUNDRED FIFTY-NINE ONLY
20	Agilent DSO7104B	Digital Storage Oscilloscopes, High Performance	Bandwidth: 1 GHz,Memory: 8 M,No. of Channels: Four,Display: Colour	NOS.	675897	Rs. SIX LAKHS SEVENTY-FIVE THOUSAN D EIGHT HUNDRED NINETY-SEVEN ONLY
21	Agilent DSO9104A	Digital Storage Oscilloscopes, High Performance	Bandwidth: 1 GHz,Memory: 40 M/20 M/10 M,No. of Channels: Four,Display: Colour	NOS.	1017575	Rs. TEN LAKHS SEVENTEEN THOUSAN D FIVE HUNDRED SEVENTY-FIVE ONLY
22	Agilent DSO90254A	Digital Storage Oscilloscopes, High Performance	Bandwidth: 2.5 GHz,Memory: 40 M/20 M/10 M,No. of Channels: Four,Display: Colour	NOS.	1479690	Rs. FOURTEEN LAKHS SEVENTY-NINE THOUSAN D SIX HUNDRED NINETY ONLY
23	Agilent DSO90404A	Digital Storage Oscilloscopes, High Performance	Bandwidth: 4 GHz,Memory: 40 M/20 M/10 M,No. of Channels: Four,Display: Colour	NOS.	2548626	Rs. TWENTY-FIVE LAKHS FORTY-EIGHT THOUSAN D SIX HUNDRED TWENTY-SIX ONLY
40	Agilent	Other Add-on items for	Description: Current Probe 100A AC/DC	NOS.	31027	

1146A	Oscilloscopes	100 KHz			Rs. THIRTY- ONE THOUSAN D TWENTY- SEVEN ONLY
41	Agilent 10076B	Other Add-on items for Oscilloscopes	Description: High Voltage Probe 100X 1KV 250 MHz	NOS.	18659 Rs. EIGHTEEN THOUSAN D SIX HUNDRED FIFTY- NINE ONLY
45	Agilent N2783A	Other Add-on items for Oscilloscopes	Description: Current Probe 30A ,100 MHz	NOS.	151716 Rs. ONE LAKHS FIFTY-ONE THOUSAN D SEVEN HUNDRED SIXTEEN ONLY
47	Agilent U1881A/U1 880A	Other Add-on items for Oscilloscopes	Description: Power measurement and analysis software	NOS.	80678 Rs. EIGHTY THOUSAN D SIX HUNDRED SEVENTY- EIGHT ONLY
49	Agilent 1156A or N2796A	Other Add-on items for Oscilloscopes	Description: Active Probe 1.5 GHz	NOS.	99890 Rs. NINETY- NINE THOUSAN D EIGHT HUNDRED NINETY ONLY
50	Agilent 1157A	Other Add-on items for Oscilloscopes	Description: Active Probe 2.5 GHz	NOS.	155904 Rs. ONE LAKHS FIFTY-FIVE THOUSAN D NINE HUNDRED FOUR ONLY
51	Agilent	Other Add-on items for	Description: Active Probe 4 GHz	NOS.	235255



1158A	Oscilloscopes				Rs. TWO LAKHS THIRTY-FIVE THOUSAND TWO HUNDRED FIFTY-FIVE ONLY
52	Agilent N2793A	Other Add-on items for Oscilloscopes	Description: Differential Probe 400 MHz	NOS.	144701 Rs. ONE LAKHS FORTY-FOUR THOUSAND SEVEN HUNDRED ONE ONLY
54	Agilent 1131A	Other Add-on items for Oscilloscopes	Description: Differential Probe3GHz	NOS.	241869 Rs. TWO LAKHS FORTY-ONE THOUSAND EIGHT HUNDRED SIXTY-NINE ONLY
55	Agilent 1132A	Other Add-on items for Oscilloscopes	Description: Differential Probe4GHz	NOS.	262307 Rs. TWO LAKHS SIXTY-TWO THOUSAND THREE HUNDRED SEVEN ONLY
58	Agilent E2697A	Other Add-on items for Oscilloscopes	Description: Interface Adaptor 1 M Ohm	NOS.	72818 Rs. SEVENTY-TWO THOUSAND EIGHT HUNDRED EIGHTEEN ONLY
59	Agilent N2744A-T2A	Other Add-on items for Oscilloscopes	Description: Interface Adaptor with BNC	NOS.	21845 Rs. TWENTY-ONE THOUSAN

60	Agilent 82357B	Other Add-on items for Oscilloscopes	Description: GPIB to USB adaptor	NOS.	D EIGHT HUNDRED FORTY- FIVE ONLY 26837 Rs. TWENTY- SIX THOUSAN D EIGHT HUNDRED THIRTY- SEVEN ONLY
65	Agilent 9000A-002	Other Add-on items for Oscilloscopes	Description: Jitter Analysis Software for Windows Based Oscilloscopes	NOS.	228420 Rs. TWO LAKHS TWENTY- EIGHT THOUSAN D FOUR HUNDRED TWENTY ONLY
66	Agilent 9000A-003	Other Add-on items for Oscilloscopes	Description: SDA or RTA Analysis Software for Windows Based Oscilloscopes	NOS.	228984 Rs. TWO LAKHS TWENTY- EIGHT THOUSAN D NINE HUNDRED EIGHTY- FOUR ONLY
68	Agilent 7000B-LSS	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for SPI & 12C for 500 MHz MSO	NOS.	39168 Rs. THIRTY- NINE THOUSAN D ONE HUNDRED SIXTY- EIGHT ONLY
69	Agilent 7000B-LSS for 1GHz	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for SPI & 12C for 1 GHz MSO	NOS.	51935 Rs. FIFTY- ONE THOUSAN D NINE HUNDRED THIRTY- FIVE ONLY

70	Agilent 7000B-AMS	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for CAN for 500 MHz MSO	NOS.	36800 Rs. THIRTY- SIX THOUSAN D EIGHT HUNDRED ONLY
71	Agilent 9000A-008	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for CAN for 1 GHz MSO	NOS.	63440 Rs. SIXTY- THREE THOUSAN D FOUR HUNDRED FORTY ONLY
73	Agilent 9000A-005	Other Add-on items for Oscilloscopes	Description: Advanced USB Analysis Software for Windows Based Oscilloscopes	NOS.	106301 Rs. ONE LAKHS SIX THOUSAN D THREE HUNDRED ONE ONLY
75	Agilent 7000B- 232/9000A- 001	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for RS232, UART	NOS.	36800 Rs. THIRTY- SIX THOUSAN D EIGHT HUNDRED ONLY
76	Agilent 7000B-FLX	Other Add-on items for Oscilloscopes	Description: Serial Bus Triggering & Decoding Module for Flexray	NOS.	220000 Rs. TWO LAKHS TWENTY THOUSAN D ONLY
82	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 60 MHz,Two channels,color, Digital	NOS.	3888 Rs. THREE THOUSAN D EIGHT HUNDRED EIGHTY- EIGHT ONLY
83	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 100 MHz,Two channels,color, Digital	NOS.	4935 Rs. FOUR THOUSAN D NINE HUNDRED THIRTY- FIVE ONLY
84	R-51B-001-	Extended warranty from 3	Description: 100 MHz,Four channels,Color,	NOS.	7858

5C	Years to 5 Years including Labour & parts	Digital			Rs. SEVEN THOUSAN D EIGHT HUNDRED FIFTY- EIGHT ONLY
85	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 200 MHz,Two channels,color, Digital	NOS.	8810 Rs. EIGHT THOUSAN D EIGHT HUNDRED TEN ONLY
86	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 200 MHz,Four channels,color, Digital	NOS.	13281 Rs. THIRTEEN THOUSAN D TWO HUNDRED EIGHTY- ONE ONLY
88	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 300 MHz,10K Four channels,color, Digital	NOS.	22000 Rs. TWENTY- TWO THOUSAN D ONLY
90	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 500 MHz,10K Four channels,color, Digital	NOS.	24500 Rs. TWENTY- FOUR THOUSAN D FIVE HUNDRED ONLY
91	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 500 MHz,8M Four channels,color, Digital	NOS.	25900 Rs. TWENTY- FIVE THOUSAN D NINE HUNDRED ONLY
92	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 1 GHz,8M, Four channels, color, Digital	NOS.	36800 Rs. THIRTY- SIX THOUSAN D EIGHT HUNDRED ONLY
94	R-51B-001- 5C	Extended warranty from 3 Years to 5 Years	Description: 1GHz,40M/20M/10M,Four channels,color,Windows,Digital	NOS.	37434 Rs.

		including Labour & parts			THIRTY-SEVEN THOUSAND FOUR HUNDRED THIRTY-FOUR ONLY
95	R-51B-001-5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 2.5GHz,40M/20M/10M,Four channels,color,Windows,Digital	NOS.	48559 Rs. FORTY-EIGHT THOUSAND FIVE HUNDRED FIFTY-NINE ONLY
96	R-51B-001-5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 4GHz,40M/20M/10M,Four channels,color,Windows,Digital	NOS.	48559 Rs. FORTY-EIGHT THOUSAND FIVE HUNDRED FIFTY-NINE ONLY
98	R-51B-001-5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 500 MHz,Mixed Signal Oscilloscope	NOS.	35316 Rs. THIRTY-FIVE THOUSAND THREE HUNDRED SIXTEEN ONLY
99	R-51B-001-5C	Extended warranty from 3 Years to 5 Years including Labour & parts	Description: 1 GHz,Mixed Signal Oscilloscope	NOS.	35316 Rs. THIRTY-FIVE THOUSAND THREE HUNDRED SIXTEEN ONLY
104	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 60MHz ,Two Channels, color, Digital	NOS.	972 Rs. NINE HUNDRED SEVENTY-TWO ONLY
105	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 100MHz ,Two Channels, Color, Digital	NOS.	1234 Rs. ONE THOUSAND TWO

				HUNDRED THIRTY- FOUR ONLY
106	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 100MHz ,Four Channels, Color, Digital NOS.	1964 Rs. ONE THOUSAN D NINE HUNDRED SIXTY- FOUR ONLY
107	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 200MHz ,Two Channels, Color, Digital NOS.	2202 Rs. TWO THOUSAN D TWO HUNDRED TWO ONLY
108	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 200MHz ,Four Channels, Color, Digital NOS.	2960 Rs. TWO THOUSAN D NINE HUNDRED SIXTY ONLY
110	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 300MHz ,10K ,Four Channels, Color, Digital NOS.	8036 Rs. EIGHT THOUSAN D THIRTY- SIX ONLY
112	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 500MHz ,10K ,Four Channels, Color, Digital NOS.	11789 Rs. ELEVEN THOUSAN D SEVEN HUNDRED EIGHTY- NINE ONLY
113	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 500MHz ,8M ,Four Channels, Color, Digital NOS.	13396 Rs. THIRTEEN THOUSAN D THREE HUNDRED NINETY- SIX ONLY
114	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 1GHz ,8M ,Four Channels, Color, Digital NOS.	16897 Rs. SIXTEEN THOUSAN D EIGHT HUNDRED



116	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 1GHz ,40M/20M/10M,Four Channels, Color, Windows Digital	NOS.	25439 Rs. NINETY-SEVEN ONLY TWENTY-FIVE THOUSAND FOUR HUNDRED THIRTY-NINE ONLY
120	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 500 MHz,Mixed Signal Oscilloscope	NOS.	18591 Rs. EIGHTEEN THOUSAND FIVE HUNDRED NINETY-ONE ONLY
121	R-50C-011-3	Additional Calibration Charges from 1 year to 3 years	Description: 1 GHz,Mixed Signal Oscilloscope	NOS.	22202 Rs. TWENTY-TWO THOUSAND TWO HUNDRED TWO ONLY
123	Agilent MSO6014A	Mixed Signal Oscilloscopes	Bandwidth: 100 MHz,No. of Channels: 4 Analog and 16 Digital,Display: Colour,Sample Rate: 1 GS/s	NOS.	253440 Rs. TWO LAKHS FIFTY-THREE THOUSAND FOUR HUNDRED FORTY ONLY
124	Agilent MSO7054B	Mixed Signal Oscilloscopes	Bandwidth: 500 MHz,No. of Channels: 4 Analog and 16 Digital,Display: Colour,Sample Rate: 2 GS/s	NOS.	743678 Rs. SEVEN LAKHS FORTY-THREE THOUSAND SIX HUNDRED SEVENTY-EIGHT ONLY
125	Agilent MSO7104B	Mixed Signal Oscilloscopes	Bandwidth: 1 GHz,No. of Channels: 4 Analog and 16 Digital,Display: Colour,Sample Rate: 2 GS/s	NOS.	888098 Rs. EIGHT LAKHS



EIGHTY-
EIGHT
THOUSAN
D NINETY-
EIGHT
ONLY

126 Agilent Mixed Signal
MSO7034B Oscilloscopes

Bandwidth: 350 MHz, No. of Channels: 4 NOS.
Analog and 16 Digital, Display:
Colour, Sample Rate: 2 GS/s

574207
Rs. FIVE
LAKHS
SEVENTY-
FOUR
THOUSAN
D TWO
HUNDRED
SEVEN
ONLY

6-Terms of Delivery:	Free delivery at consignee's premises including installation & commissioning with 3 years warranty.
7-Excise Duty:	N.A.
8-Sales Tax:	CST/VAT Extra @4%
9-Delivery Period:	Within 12 to 16 weeks from the date of receipt of confirmed order, custom duty exemption certificate, road permit, End-user certificate & Octroi exemption certificate. In case of CDEC, the D/P will be counted from the date of issue of CDEC / EUC.
10(a)-Annual Turnover:	Without Limit
(b)-Monetary Limit(In Rs.):	Without Any Limit
11-Payment Terms:	As per Schedule B
12-Slab Discount Clause:	Applicable
13-Prices:	FIXED
14-Quantity Offered:	NA
15-Minimum Quantity in Single Supply Order:	Without Limit
16-Minimum order Value in Single Supply Order:	Without Limit
17-Status of the RC Holding Firm:	LSI
18-Paying Authority:	The Deputy Controller of Accounts, Deptt. of Supply Shastri Bhawan, 26, Haddows Road Chennai - 600006
19-Inspection Authority:	For Civil ADG(QA), Jeevan Tara Building, Parliament Street New Delhi
20-Quality Assurance Officer:	For Civil Director(QA), Delhi Directorate, Jeevan Tara Building, 4th Floor, Sansad Marg New Delhi DELHI -110001

21-Place where the Stores are to be Tendered for Inspection:

Synergy Measurement Technologies Pvt. Ltd. 10/19,
Automatic House, Ground Floor, East Patel Nagar, New
Delhi- 110008

22-R/C is DDOs Operated:

Yes

With effect from First October two thousand eight (01-10-2008),all supply order(s) against this Rate Contract must be placed by Direct Demanding Officer(s) on-line through D.G.S&D web site (www.dgsnd.gov.in) (indentor's page) only. Supply order(s) in any other form placed on or after 01-10-2008 shall not be valid and shall not be acted upon by the contractor or any other concerned agencies.

DDO shall download the supply order and send an ink signed copy to the concerned paying authority specified in the rate contract through Registered / speed post immediately after on-line placement of Supply Order(s).

23-Packing & Specification :

see annexure



Asstt. Director (S) / Section Officer / Dy. Director
For and behalf of the purchaser named in the Form DGS&D 1001.

All the R/C particulars including prices in respect of individual R/Cs are available on DGS&D website which can be accessed by all. The DGS&D website is <http://dgsnd.gov.in>



SCHEDULE - B

RC Specification: 1. Name & address of manufacturers:

i.M/s. Agilent Technologies (Chengdu) Co., Ltd. 79 Baicao Road, Qianfeng park, Chengdu Hi-Tech industrial Development Zone (West), Chengdu 611731, China

ii. Agilent Technologies Microwave Products (M) Sdn Bhd Bayan Lepas Free Industrial Zone, Bayan Lepas 11900, Penang, Malaysia

Special Conditions of Contract:

1. Insurance: As per DGS&D standard transit insurance clause, it will be responsibility of supplier for safe arrival of stores in full and good conditions at user's point and purchaser will not pay separately for transit insurance clause.

2. Country of Origin : Malaysia / China

3. Payment terms :

98% payment would be payable against proof of inspection and consignee receipt certificate issued by consignee for having received the stores in full and in good conditions. The balance 2% after successful demonstration and acceptance of stores by consignee and on submission of Bank Guarantee for balance 2% value of order valid till 2 months beyond the warranty period of 3 years indemnifying the purchaser against all losses incurred by the purchase during the guarantee/warranty.

4 No assistance for import of finished product or raw material will be provided.

5. Octroi Duty and Local Taxes:

Normally materials to be supplied to Govt. Department against Govt. contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. The local Town/Municipal Body regulations at times, however, provide for such exemption only on production of such exemption certificate from any authorized officer. Contractors should ensure that stores ordered against contracts placed by this office are exempted from levy of town duty/Octroi duty, Terminal tax or other local taxes and duties. Wherever required, they should obtain the exemption certificate from the purchase officer or indentor concerned, to avoid payment of such local taxes or duties. Octroi, entry tax etc. on buyers account in absence of relevant exemption certificate.

6. Supply of Road Permits/ Way bill by the indentor/consignees:

In all such cases where the requirement of Road Permit/Way Bills for entry of goods into a particular State is mandatory, the following provisions shall be strictly followed: -.

(a) The supplier shall request the indentor/consignee for providing Road permit/ Way bill within 10 days of the receipt of the Supply order. The supplier shall furnish all the necessary information and documents in this regard to Indentor/consignee.

(b) On receipt of the above request from the supplier, the indentor/consignee concerned shall arrange to provide the Road permit/Way Bill in the prescribed form to the supplier within a maximum period of two weeks so that the same reaches the supplier before the dispatch of the stores. However, in cases where the Road permit/Way Bill is issued on proof of actual invoice of the material, the consignee shall arrange to provide the Road permit/Way Bill from appropriate authorities within a maximum period of 5 days from the receipt of invoice.

(c) The supplier shall not be held responsible for any delay in supply due to non- supply/delayed supply of Road permit/Way bill by the indentor/consignee.

(d) All cases of abnormal delay in providing requisite details/ documents by the supplier or issue of Road permit/Way bill by indentor/consignee, the same shall be reported to DGS&D.

7. Signing of Inspection Notes issued by QA Wing of DGS&D : Instructions to Indentors/Consignees.

Advance Payment Copy of Inspection Note for claiming 98% payment (copy No.1):

This is a provisional receipt. It only be tokens the receipt of stores by the consignee and is without prejudice to his rights of inspection and rejection under the general condition to contact. It is issued on said to contain basis the Contractor remaining responsible for proving the total quantities actually delivered. Consignee mentioned in the Inspection Notes should sign (in INK) & put his official rubber stamp on the Advance Payment Copy of Inspection Notes IMMEDIATELY on the receipt of the material and handover the same to the company's authorized representative. Where this is not possible or inconvenient, it should be signed (in INK) by an official authorized by the consignee in that behalf. In such cases, the official signing the receipt certificate should indicate his designation and the official on whose behalf he is signing; and put his official rubber stamp.

Balance payment & Accounts Copy of Inspection Note (Copy no 2& 5) for claiming 2% balance payment.

Within 90 days from the date of material received, Consignee mentioned in the Inspection Notes should sign (in INK) & put his official rubber stamp on the Balance & Accounts office copy of Inspection Notes and should fill up the columns of Receipt Voucher No.

In cases where the supply is incomplete or defective or the supplier do not carry out commissioning/demonstration of the stores within the period as per (i) above, the consignee shall report such cases immediately to the supplier and DGS&D.

In cases where the consignees do not release copy 2 and 5 of I/Notes within the period as (i) above for the reasons which are considered not valid by the supplier, they may approach DGS&D with complete details for authorization of balance payment without copy 2 and 5 of I/Notes and the same shall be considered by DGS&D on merits of each case..

8 End User Certificate: Please note that End User Certificate is required for all products. Delivery shall be subject to approval of end user certificate by Agilent / US deptt of commerce.

9. Individual Validated License: Please note that organizations requiring individual validated licenses (IVL), as determined by US government, need to furnish license application. Please note that order acceptance & shipment will be performed only after receipt of IVL from US government.

10. Liquidated Damages: Levy of Liquidated Damages shall be exempted in cases where delay is due to non-receipt of CDE certificate, Road Permit or other such relevant documents (for effecting deliveries) from the customer or under force-de-majeure conditions.

11 Custom Duty Exemption :

a. 10% against valid CDE certificate, for customers, such as education institutes, where present rate custom duty is 9.3% as per custom notification 51/96. To qualify for this discount, education institutes must be Post-Secondary, Degree-granting, Non-Profit, Government-accredited colleges, duty-paid rate contract prices of oscilloscopes.

b) 17.7% against valid CDE certificate, for Defense customers, where present rate custom duty is nil as per custom notification 39/96.



SCHEDULE - C

List of Parallel Rate Contract For Oscilloscopes

Sr.No.	NAME & FULL ADDRESS OF FIRM	R/C NO & DATE
1	AGMATEL INDIA PVT LTD E-366, 2nd Floor, Nirman Vihar, Vikas Marg, Delhi 110092 Mr. A.K.Aggarwal- 9810054742, E- mail:aka@agmatel.com Ph:011-22462256 / 22456529 / 43064306 Fax:011- 22019833 . DELHI 110092	Oscope/IT-3/RC- D2040000/0312/83/F0359/1727 24-MAR-11
2	SRB INSTRUMENTS PVT. LTD., B-28/34 Subhash Chowk, Laxmi Nagar, Delhi- 110092 Mr. Rakesh Pandita: 09810190551 Mr. Vinod Pandita: 09810445563 E-mail: info@srb-instruments.com . DELHI 110092	Oscope/IT-3/RC- D2040000/0312/83/F0197/1728 24-MAR-11
3	SYNERGY MEASUREMENT TECHNOLOGIES PVT. LTD. 25/C, Nicholson Road, Tarbund,Secunderabad- 500009 (AP) E-mail: debashis@synergytech.in Tele No. 040-44444040/50/35 Mr. Debashis: 09830067183 . ANDHRA PRADESH 500015	Oscope/IT-3/RC- D2040000/0312/83/F0710/1729 24-MAR-11

NOTE:

(1) Before placing supply order, DDOs are advised to check with DGS&D or on the website whether any further RCs have been awarded or amendments to Rate Contract have been issued.

(2) All the R/C particulars including prices in respect of individual R/C's are available on DGS&D website, which can be accessed by all. The access code of DGS&D website is <http://dgsnd.gov.in>.

ANNEXURE

Type Test Reports shall consist of functional tests and environmental tests for each Model for the claimed parameter and shall be from any Govt. laboratory in India.

Environmental tests:

1. Dry Heat Test : 50 deg C for 16 hours as per IS:9000/Pt.3/sec.5/1977 (reaffirmed in 2004)
2. Cold test : 0 deg C for 4 hours as per IS:9000/Pt.2/sec.4/1977 (reaffirmed in 2004)
3. Damp Heat Test: 95% RH at 40 deg C, two cycles of 24 hours each separated by a gap of 4 hours as per IS:9000/Pt.5/sec.1/1991 (reaffirmed in 2004)

The oscilloscopes shall be checked functionally before and after recovery period of 1-2 hours of the environmental test sequence as above. Functional tests shall include switching ON and calibration. Calibration shall also be checked at supplier's premises in presence of DGS&D QA officer to verify compliance of stores offered for inspection.

Type Test report shall be required at the time of registration and inspection.



Other Add-on items for Oscilloscopes

Specification : As per General Technical Requirement.
Digital Storage Oscilloscopes

(I) Digital Storage Oscilloscope 60 MHz Two Channel Colour Display

1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help and Waveform and set up memories
2. Real Time Bandwidth : DC- 60 MHz simultaneously on all channels
3. No. of Channels : Two with external channel
4. Sample Rate (Max.) : 200 MS/s on all channels
5. Record Length : 2500 Points per channel
6. Vertical Resolution : 8 Bits
7. Vertical Sensitivity : 5 mv to 5 Volts per division
8. Time Base Range : 5 ns to 50 sec per division
9. Time Base Accuracy : 100 ppm
10. Trigger Mode : Auto, Normal and Single Sequence
11. Max.Input Voltage : 300 VRMS CAT II
12. Input Coupling : AC, DC, & Ground
13. Triggering : Edge, Video, Pulse width, External
14. Analysis Modes : Peak Detect, Average, Normal,
15. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract), FFT
16. Display : LCD/CRT (Colour)

- 17. Interpolation : Sin x/x
- 18. Format : Y-T and X-Y
- 19. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 20. I/O Interface : USB, one Centronics or USB and Software for waveform Analysis
- 21. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 22. Standard Accessories to be supplied : Two 10X probes, Power Cord, Manual, Calibration Certificates
- 23. Applications : Digital Design and Debug Manufacturing testing and quality control Education and training Service and repair

(II) Digital Storage Oscilloscope 100 MHz Two Channel Colour Display

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help feature and Waveform and set up memories
- 2. Real Time Bandwidth : DC- 100 MHz simultaneously on all channels
- 3. No. of Channels : Two with external channel
- 4. Sample Rate (Max.) : 500 MS/s on all channels
- 5. Record Length : 2500 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 5 mv to 5 Volts per division
- 8. Time Base Range : 5 ns to 50 sec per division
- 9. Time Base Accuracy : 100 ppm
- 10. Trigger Mode : Auto, Normal and Single Sequence
- 11. Max .Input Voltage : 300 VRMS CAT II
- 12. Input Coupling : AC, DC, & Ground
- 13. Triggering : Edge, Video, Pulse width, External
- 14. Analysis Modes : Peak Detect, Average, Normal
- 15. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract), FFT
- 16. Display : LCD/CRT (Colour)
- 17. Interpolation : Sin x/x
- 18. Format : Y-T and X-Y
- 19. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 20. I/O Interface : USB, one Centronics or USB and Software for waveform Analysis
- 21. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 22. Standard Accessories to be supplied : Two 10X probes, Power Cord, Manual, Calibration Certificates
- 23. Applications : Digital Design and Debug Manufacturing testing and quality control Education and training Service and repair

(III) Digital Storage Oscilloscope 100 MHz Four Channel Colour Display

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help feature and Waveform and set up memories
- 2. Real Time Bandwidth : DC- 100 MHz simultaneously on all channels
- 3. No. of Channels : Four with external channel
- 4. Sample Rate (Max.) : 1 GS/s on all channels
- 5. Record Length : 2500 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 5 mv to 5 Volts per division
- 8. Time Base Range : 5 ns to 50 sec per division
- 9. Time Base Accuracy : 100 ppm
- 10. Trigger Mode : Auto, Normal and Single Sequence
- 11. Max. Input Voltage : 300 VRMS CAT II
- 12. Input Coupling : AC, DC, & Ground

- 13. Triggering : Edge, Video, Pulse width, Glitch, External
- 14. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
- 15. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract), FFT
- 16. Display : LCD/CRT (Colour)
- 17. Interpolation : Sin x/x
- 18. Format : Y-T and X-Y
- 19. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 20. I/O Interface : USB, one Centronics or USB and Software for waveform Analysis
- 21. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 22. Standard Accessories to be supplied : Four 10X probes, Power Cord, Manual, Calibration Certificates
- 23. Applications : Digital Design and Debug Manufacturing testing and quality control Education and training Service and repair

(IV) Digital Storage Oscilloscope 200 MHz Two Channel Colour Display

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help and Waveform and set up memories
- 2. Real Time Bandwidth : DC- 200 MHz simultaneously on all channels
- 3. No. of Channels : Two with external channel
- 4. Sample Rate (Max.) : 1 GS/s on all channels
- 5. Record Length : 2500 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 5 mv to 5 Volts per division
- 8. Time Base Range : 2.5 ns to 50 sec per division
- 9. Time Base Accuracy : 50 ppm
- 10. Trigger Mode : Auto, Normal and Single Sequence
- 11. Max. Input Voltage : 300 VRMS CAT II
- 12. Input Coupling : AC, DC, & Ground
- 13. Triggering : Edge, Video, Pulse width, Glitch, External
- 14. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
- 15. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract), FFT
- 16. Display : LCD/CRT (Colour)
- 17. Interpolation : Sin x/x
- 18. Format : Y-T and X-Y
- 19. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 20. I/O Interface : USB, one Centronics or USB and Software for waveform Analysis
- 21. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 22. Standard Accessories : Two 10X probes, Power Cord, Manual, Calibration Certificates
- 23. Applications : Digital Design and Debug Manufacturing testing and quality control Education and training Service and repair

(V) Digital Storage Oscilloscope 200 MHz Four Channel Colour Display

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help feature and Waveform and set up memories
- 2. Real Time Bandwidth : DC- 200 MHz simultaneously on all channels
- 3. No. of Channels : Four with external channel
- 4. Sample Rate (Max.) : 1 GS/s on all channels
- 5. Record Length : 2500 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 5 mv to 5 Volts per division

- 8. Time Base Range : 2.5 ns to 50 sec per division
- 9. Time Base Accuracy : 50 ppm
- 10. Trigger Mode : Auto, Normal and Single Sequence
- 11. Max. Input Voltage : 300 VRMS CAT II
- 12. Input Coupling : AC, DC, & Ground
- 13. Triggering : Edge, Video, Pulse width, Glitch, External
- 14. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
- 15. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract), FFT
- 16. Display : LCD/CRT (Colour)
- 17. Interpolation : Sin x/x
- 18. Format : Y-T and X-Y
- 19. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 20. I/O Interface : USB, one Centronics or USB and Software for waveform Analysis
- 21. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 22. Standard Accessories to be supplied : Four 10X probes, Power Cord, Manual, Calibration Certificates
- 23. Applications : Digital Design and Debug Manufacturing testing and quality control Education and training Service and repair

Digital Storage Oscilloscopes, High Performance

(I) Digital Storage Oscilloscope 300 MHz Two Channel Colour Display


- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help and Waveform and set up memories
- 2. Real Time Bandwidth : DC- 300 MHz simultaneously on all channels
- 3. No. Of Channels : Two Channel with External channel
- 4. Sample Rate (Max.) : 1 GS/s on all channels
- 5. Record Length : 10000 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 2 mv to 5 Volts per division
- 8. Time Base Range : 2 ns to 10 sec per division
- 9. Time Base Accuracy : 25 ppm
- 10. Waveform Capture Rate : 3500 waveforms/sec Real Time
- 11. Trigger Mode : Auto, Normal and Single Sequence
- 12. Max. Input Voltage : 150 VRMS CAT I
- 13. Input Coupling : AC, DC, & Ground
- 14. Triggering : Edge, Video, Pulse width, Glitch, External
- 15. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
- 16. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), FFT
- 17. Display : Colour LCD/CRT
- 18. Interpolation : Sin x/x
- 19. Format : Y-T and X-Y
- 20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 21. I/O Interface : GPIB, Centronics/USB, Ethernet, VGA ports and waveform processing Software
- 22. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 23. Standard Accessories to be supplied : Two 10X Passive probes, Power Cord, Manual, Calibration Certificates
- 24. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education

and training Service and repair

(II) Digital Storage Oscilloscope 300 MHz Four Channel Colour Display

1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, FFT, on line help and Waveform and set up memories
2. Real Time Bandwidth : DC- 300 MHz simultaneously on all channels
3. No. Of Channels : Four Channel with External channel
4. Sample Rate (Max.) : 2 GS/s on all channels
5. Record Length : 10000 Points per channel
6. Vertical Resolution : 8 Bits
7. Vertical Sensitivity : 2 mv to 10 Volts per division
8. Time Base Range : 2 ns to 10 sec per division
9. Time Base Accuracy : 25 ppm
10. Waveform Capture Rate : 3500 waveforms/sec Real time
11. Trigger Mode : Auto, Normal and Single Sequence
12. Max. Input Voltage : 150 VRMS CAT I
13. Input Coupling : AC, DC, & Ground
14. Triggering : Edge, Video, Pulse width, Glitch, External
15. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
16. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), FFT
17. Display : Colour LCD/CRT
18. Interpolation : Sin x/x
19. Format : Y-T, X-Y
20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
21. I/O Interface : GPIB, Centronics/USB, Ethernet, VGA ports and waveform processing Software
22. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
23. Standard Accessories to be supplied : Four 10X Passive probes, Power Cord, Manual, Calibration Certificates
24. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education and training Service and repair

(III) Digital Storage Oscilloscope 500 MHz Two Channel Colour Display

1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, Automatic anomaly detection.
 2. Real Time Bandwidth : DC- 500 MHz simultaneously on all channels
 3. No. Of Channels : Two Channel with External channel
 4. Sample Rate (Max.) : 4 GS/s on all channels
 5. Record Length : 10000 Points per channel
 6. Vertical Resolution : 8 Bits
 7. Vertical Sensitivity : 2 mv to 5 Volts per division
 8. Time Base Range : 1 ns to 10 sec per division
 9. Time Base Accuracy : 25 ppm
 10. Waveform Capture Rate : 3500 waveforms/sec Real Time
 11. Trigger Mode : Auto, Normal and Single Sequence
 12. Max. Input Voltage : 150 VRMS CAT I
 13. Input Coupling : AC, DC, & Ground
 14. Triggering : Edge, Video, Pulse width, Glitch, External
 15. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
 16. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), FFT
 17. Display : Colour LCD/CRT
 18. Interpolation : Sin x/x
- 

- 19. Format : Y-T and X-Y
- 20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply and Battery operation for 2 hour (Optional)
- 21. I/O Interface : GPIB, Centronics/USB, Ethernet, VGA ports and waveform processing Software
- 22. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 23. Standard Accessories to be supplied : Two 10X Passive probes, Power Cord, Manual, Calibration Certificates
- 24. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education and training Service and repair

(IV) Digital Storage Oscilloscope 500 MHz Four Channel Colour Display

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, Automatic anomaly detection.
- 2. Real Time Bandwidth : DC- 500 MHz simultaneously on all channels
- 3. No. Of Channels : Four Channel with External channel
- 4. Sample Rate (Max.) : 4 GS/s on all channels
- 5. Record Length : 10000 Points per channel
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 2 mv to 5 Volts per division
- 8. Time Base Range : 1 ns to 10 sec per division
- 9. Time Base Accuracy : 25 ppm
- 10. Waveform Capture Rate : 3500 waveforms/sec.
- 11. Trigger Mode : Auto, Normal and Single Sequence
- 12. Max. Input Voltage : 150 VRMS CAT I
- 13. Input Coupling : AC, DC, & Ground
- 14. Triggering : Edge, Video, Pulse width, Glitch, External
- 15. Analysis Modes : Peak Detect, Average, Normal, Roll Mode
- 16. Measurements : Automatic Measurements, Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), FFT
- 17. Display : Colour LCD/CRT
- 18. Interpolation : Sin x/x
- 19. Format : Y-T, X-Y
- 20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply and Battery operation for 2 hour (Optional)
- 21. I/O Interface : GPIB, Centronics/USB, Ethernet, VGA ports and waveform processing Software
- 22. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 23. Standard Accessories to be supplied : Four 10X Passive probes, Power Cord, Manual, Calibration Certificates
- 24. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education and training Service and repair

(V) Digital Storage Oscilloscopes 500 MHz Four Channel Colour Display

- 1. General : The Digital Oscilloscopes shall be rugged and portable with user-friendly front Panels for various Types of measurements quickly and precisely. It shall provide Facilities for commonly used automatic Measurements, auto set features, Cursor Measurements IVI Drive.
- 2. Real Time Bandwidth : DC-500MHz simultaneously on all channels
- 3. No. Of Channels : Four Channels
- 4. Sample Rate : 2 GS/s on all Channels
- 5. Record Length : 5M on all channels
- 6. Vertical Resolution : 8 Bits

- 7. Vertical Sensitivity : 2 mV/div to 5 V/div.
1 Mohm
- 8. Time Base Range : 1ns to 50 sec. Per division
- 9. Time Base Accuracy : +/- 15ppm
- 10. Waveform Capture Rate : 50000 waveform/sec.
- 11. Sweep Mode : Auto, Normal and Single Sequence
- 12. Max.Input Voltage 1Mohm: 250Vrms with peaks<+/-400V
- 13. Input Coupling : AC, DC, GND
- 14. Triggering : Edge, Pulse Width, Logic, Setup and Hold, Rise/Fall Time, Video, I2C, SPI, CAN, Trigger Delay by time, Trigger Delay by events, Auto, Normal and Single, Trigger markers
- 15. Acquisition Modes : Sample, Peak Detect, Averaging, Hi-Resolution, Roll
- 16. Measurements : 25 Automatic Measurement, (4 can be displayed on screen at any one time), Measurement Statics, Reference Levels, Gating, Math (Add, Subtract, Multiply and Divide Waveforms), FFT, Math Functions Integrate, Differentiate, Advanced Math- Define extensive algebraic expressions including waveforms, math functions, scalars, up to two user adjustable variables and results of parametric measurements.
- 17. Display : Colour Display, 6.3 inches LCD TFT,
- 18. Interpolation : Sin x/x
- 19. Format : YT, XY
- 20. Power Supply : 230 +/- 10% Volts, 50 Hz. AC Supply
- 21. I/O Interface : USB, LAN Port
- 22. Operating Conditions : 10 to 40 degree C and humidity of 80% at 30 degree C
- 23. Accessories : 500M Hz Probe one per channel, Front Cover, User Manual, Compact Flash Memory Card, Calibration Certificate, Power Cord & Accessories Bag etc.

(VI) Digital Storage Oscilloscope 500 MHz Four Channel Colour with Windows Interface

- 1. General : Portable, rugged for automatic measurements, auto set features, cursor measurements, Automatic anomaly detection, Windows ,User Interface.
- 2. Real Time Bandwidth : DC- 500 MHz simultaneously on all channels
- 3. No. Of Channels : Four with External Channels
- 4. Sample Rate (Max.) : 1 GS/s (all channels)
- 5. Record Length(1/2/4 Ch): 16M/8M/4M
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 2 mv to 5 Volts per division
- 8. Time Base Range : 500 ps to 20 sec per division
- 9. Time Base Accuracy : 15 ppm
- 10. Waveform Capture Rate : 1,00,000 waveforms/sec.
- 11. Sweep Mode : Auto, Normal and Single Sequence
- 12. Max .Input Voltage : 150 VRMS CAT I
- 13. Input Coupling : AC, DC, & Ground
- 14. Triggering : Edge, Video, Glitch, Width, Window, Timeout, Transition, Setup/Hold, Pattern, State
- 15. Analysis Modes : Sample, Peak Detect, Average, Hi resolution, Waveform database.
- 16. Measurements : Automatic Measurements (Amplitude, time, Combination, Histogram, Communication related), Time & Voltage Cursors, Advance Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), Frequency Domain functions,Mathematical uncluding Algebraic Expressions ,User Defined Maths/Functions, Custom Development,Environment/Customizable GOI.
- 17. Display : colour LCD

- 18. Interpolation : Sin x/x
- 19. Format : Y-T, X-Y
- 20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
- 21. I/O Interface : GPIB, Centronics/USB, Ethernet, 2 USB ports, VGA port and waveform processing Software, LAN port
- 22. Operating System : Windows User Interface.
- 23. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
- 24. Standard Accessories to be supplied : Four 10X Passive probes, Power Cord, Manual, Calibration Certificates
- 25. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education and training

(VII) Digital Storage Oscilloscopes 1 GHz Four Channel Colour Display

- 1. General : The Digital Oscilloscopes shall be rugged and portable with user-friendly front panels for various Types of measurements quickly and precisely. It shall provide facilities for commonly user automatic Measurements, auto set features, Cursor Measurements.
- 2. Real Time Bandwidth : DC-1GHz simultaneously on all channels
- 3. No. Of Channels : Four Channels
- 4. Sample Rate : 4 GS/s on all Channels
- 5. Record Length : 4M on All channels & 8M on Two Channels
- 6. Vertical Resolution : 8 Bits
- 7. Vertical Sensitivity : 2 mV/div to 5 V/div.
1Mohm
- 8. Time Base Range : 500 ps to 50 sec. Per division
- 9. Time Base Accuracy : +/- 15 ppm
- 10. Waveform Capture Rate : 50000 waveform/sec.
- 11. Sweep Mode : Auto, Normal and Single Sequence
- 12. Max.Input Voltage 1Mohm: 250 Vrms with peaks<+/-400V
- 13. Input Coupling : AC, DC, GND
- 14. Triggering : Edge, Pulse Width, Logic, Setup and Hold, Rise/Fall Time, Video, 12C, SPI, CAN, Trigger Delay by time, Trigger Delay by events, Auto, Normal and Single, Trigger markers
- 15. Acquisition Modes : Sample, Peak Detect, Averaging, Hi- Resolution, Roll
- 16. Measurements : 25 Automatic Measurement, (4 can be displayed on screen at any one time), Measurement Statics, Reference Levels, Gating, Math (Add, Subtract, Multiply and Divide Waveforms), FFT, Math Functions Integrate, Differentiate, Advanced Math- Define extensive algebraic expressions including waveforms, math functions, scalars, up to two user adjustable variables and results of parametric measurements.
- 17. Display : Colour Display, 6.3 inches LCD TFT,
- 18. Interpolation : Sin x/x
- 19. Format : YT, XY
- 20. Power Supply : 230 +/- 10% Volts, 50 Hz. AC Supply
- 21. I/O Interface : USB, LAN Port
- 22. Operating Conditions : 10 to 40 degree C and humidity of 80% at 30 degree C
- 23. Accessories : 500 MHz Probe one per channel, Front Cover, User Manual, Compact Flash Memory Card, Calibration Certificate, Power Cord & Accessories Bag etc.

(VIII) Digital Storage Oscilloscope 1 GHz Four Channel Colour Display with Windows Interface

- 1. General : Portable, rugged for automatic measurements, auto

- to set features, cursor measurements, Should be capable detect the anomaly in the waveform automatically, Windows User Interface.
2. Real Time Bandwidth : DC- 1GHz simultaneously on all channels
 3. No. Of Channels : Four Channels with external channel
 4. Sample Rate (1/2/4 Ch.): 1 GS/s on all channels
 5. Record Length(1/2/4Ch.): 16M/8M/4M
 6. Vertical Resolution : 8 Bits
 7. Vertical Sensitivity : 1 mv to 5 Volts per division
 8. Time Base Range : 500 ps to 20 sec per division
 9. Time Base Accuracy : 15 ppm
 10. Waveform Capture Rate : 1,00,000 waveforms/sec.
 11. Sweep Mode : Auto, Normal and Single Sequence
 12. Max. Input Voltage : 150 Vrms CAT I
 13. Input Coupling : AC, DC, & Ground
 14. Triggering : Edge, Video, Width, Glitch, Window, Timeout, Transition, Setup/Hold, Pattern, State
 15. Analysis Modes : Sample, Peak Detect, Average, Hi resolution, Waveform database.
 16. Measurements : Automatic Measurements (Amplitude, Time, Combination, Histogram, Communication related), Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), Frequency Domain function ,Mathematical including Algebraic Expressions,User Defined Maths/Functions, Custom Development Environment/Customizable GOI.
 17. Display : Colour LCD
 18. Interpolation : Sin x/x
 19. Format : Y-T, X-Y
 20. Power Supply : 230 V +/- 10%, 50 Hz. AC Supply
 21. Operating System : Windows
 22. I/O Interface : GPIB, Centronics/USB, Ethernet, 2 USB ports, VGA port and waveform processing Software, LAN port
 23. Operating Conditions : 10 to 40 degree C and 80% RH at 30 degree C
 24. Standard Accessories to be supplied : Four 10X Passive probes, Power Cord, Manual, Calibration Certificates
 25. Applications : Digital Design and Debug Telecommunication testing Video design, installation and service Education and training

(IX) Digital Oscilloscopes 2.5 GHz, 4 channel Colour Display with Windows Interface

1. General : The Digital Oscilloscope shall be rugged and portable with user-friendly front panels for various Types of measurements quickly and precisely. It shall provide facilities for commonly used automatic Measurements, auto set features,Cursor measurements, CD-RW Drive, Hard Disk Drive,Open environment with Windows XP OS Delivers Built-In Networking and Analysis (third party software like Math lab.
2. Real Time Bandwidth : DC- 2.5GHz simultaneously on all channels
3. No. Of Channels : Four Channels with external channel
4. Sample Rate(1/2/4 Ch.) : 40 GS/s /20GS/s/10GS/s

5. Record Length(1/2/4 Ch): 10M on All channels
6. Vertical Resolution : 8 Bits
7. Vertical Sensitivity : 2 mv to 1 Volts per division
8. Time Base Range : 25 ps to 1000 sec per division
9. Time Base Accuracy : 2.5 ppm + Aging <1ppm
10. Waveform Capture Rate : 250000 waveforms/sec.
11. Sweep Mode : Auto, Normal and Single Sequence
12. Max. Input Voltage : 150 Vrms CAT I
13. Input Coupling : AC, DC, & Ground
14. Triggering : Edge, Glitch, Width, Glitch, Runt, Window, Timeout, Transition, Setup/Hold, Pattern, State
15. Analysis Modes : Sample, Peak Detect, Average, Envelope, Hi resolution, Waveform database.
16. Measurements : 53 Automatic Measurements which 8 can be displayed at any one time (Amplitude, Time, Combination, Histogram, Communication related), Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), Frequency Domain functions, Mathematical including Algebraic Expressions User Defined Maths/Functions, Custom Development Environment/Customizable GOI.
17. Display : Colour LCD (8.4 inches)
18. Interpolation : Sin x/x, Linear
19. Format : Y-T, X-Y
20. Power Supply : 230 +/- 10% Volts, 50 Hz. AC Supply
22. I/O Interface : USB 2.0 Port, Parallel Port, LAN Port, Serial Port, GPIB Port
23. Operating Conditions : 10 to 40 degree C and humidity of 80% at 30 degree C
24. Standard Accessories : Power Cord, Manual, Calibration Certificates to be supplied

(X) Digital Oscilloscopes 4 GHz, 4 channel Colour Display with Windows Interface

1. General : The Digital Oscilloscope shall be rugged and portable with user-friendly front panels for various Types of measurements quickly and precisely. It shall provide facilities for commonly used automatic Measurements, auto set features, Cursor measurements, CD-RW Drive, Hard Disk Drive, Open environment with Windows XP OS Delivers Built-In Networking and Analysis(third party software like Math lab).
2. Real Time Bandwidth : DC- 4GHz simultaneously on all channels
3. No. Of Channels : Four Channels with external channel
4. Sample Rate : Min 20 GS/s on all channels
5. Record Length : 10 M on All channels
6. Vertical Resolution : 8 Bits
7. Vertical Sensitivity : 10 mv to 1 Volts per division
8. Time Base Range : 50 ps to 10 sec per division
9. Time Base Accuracy : 2.5 ppm
10. Waveform Capture Rate : 250000 waveforms/sec.
11. Sweep Mode : Auto, Normal and Single Sequence
12. Max. Input Voltage : 5 Vrms
13. Input Coupling : DC, & Ground
14. Triggering : Edge, Glitch, Width, Glitch, Window, Timeout, Transition, Setup/Hold, Pattern, State
15. Analysis Modes : Sample, Peak Detect, Average, Hi resolution, Waveform database.
16. Measurements : 53 Automatic Measurements which 8 can be displayed at any one time (Amplitude, Time, Combination,

Histogram, Communication related), Time & Voltage Cursors, Math (Add, Subtract, Divide, Multiply, Integration, Differentiation), Frequency Domain functions, Mathematical including Algebraic

Expression,

User Defined Maths/Functions, Custom Development Environment/Customizable GOI.

- 17. Display : Colour LCD (8.4 inches).
- 18. Interpolation : Sin x/x.
- 19. Format : Y-T, X-Y .
- 20. Power Supply : 230 +/- 10% Volts, 50 Hz. AC Supply.
- 22. I/O Interface : USB 2.0 Port, Parallel Port, LAN Port, Serial Port, GPIB Port.
- 23. Operating Conditions : 10 to 40 degree C and humidity of 80% at 30 degree C
- 24. Standard Accessories : Power Cord, Manual, Calibration Certificates to be supplied.

Mixed Signal Oscilloscopes

(I) Mixed Signal Oscilloscope 100 MHz 2 Analog and 16 Digital Channels
Colour Display(High End)

- 1. Input Channels : 2 Analog Channel + External Triggering + 16 (Logic Analyser)
- 2. Analog Channels
 - (a) Bandwidth : 100 MHz on all channels
 - (b) Number of Channels : 2
 - (c) Record Length : 1 M points on one channel
 - (d) Sample Rate : 1GS/s
 - (e) Time base range : 5 nsec/div to 50 sec/div
 - (f) Acquisition Mode : Normal, Peak Detect, Averaging
 - (g) Resolution : 8 bits
 - (h) Input sensitivity : 2 mV/div. to 5 div
- 3. Digital Channels
 - (a) Channels : 16 Channels
 - (b) Record Length : 1M
 - (c) Sampling rate : 1 GS/s
- 4. Trigger
 - (a) Trigger types : Edge, Pulse, Slope, Video, Alternate, Pattern and Duration.
 - (b) Auto Measure : Vpp, Vmax. Vmin, Vtop, Vbase, Vrms, Vavg, Vover, Vpre, Freq. Period, Rise, Fall, + Width, - Width, +Duty, -Duty, DelayA, DelayB.
 - (c) Math : Add, Subtract, Multiply
- 5. Display
 - (a) Display type : TFT Color Display 5.6inch 320 x 23
- 6. General Specification
 - (a) Waveform Storage : Internal storage of setups, waveforms, USB, BMP, CSV, Waveforms, Setups.
 - (b) I/O : USB or RS232
 - (c) Probes for Analog Channels : Probe x 2 (10x)
 - (d) Probes for Digital channels : Should provide 16 channels logic probes
- 7. Power Supply : 230 Volts +/-10%, 50 Hz AC Supply
- 8. Operating Condition : 10 to 40 deg. C and 80% RH at 30 degree C

(II) Mixed Signal Oscilloscope 100 MHz 4 Analog and 16 Digital Channels
Colour Display(High End)

1. Input Channels : 4 Analog Channel + External Triggering + 16 (Logic Analyser)
2. Analog Channels
 - (a) Bandwidth : 100 MHz on all channels
 - (b) Number of Channels : 4
 - (c) Record Length : 1 M points on one channel
 - (d) Sample Rate : 1GS/s
 - (e) Time base range : 5nsec/div to 50 sec/div
 - (f) Acquisition Mode : Normal, Peak Detect, Averaging
 - (g) Resolution : 8 bits
 - (h) Input sensitivity : 2 mV/div. to 5 div
3. Digital Channels
 - (a) Channels : 16 Channels
 - (b) Record Length : 1M
 - (c) Sampling rate : 1 GS/s
4. Trigger
 - (a) Trigger types : Edge, Pulse, Slope, Video, Alternate, Pattern and Duration.
 - (b) Auto Measure : Vpp, Vmax. Vmin, Vtop, Vbase, Vrms, Vavg, Vover, Vpre, Freq. Period, Rise, Fall, + Width, - Width, +Duty, -Duty, DelayA, DelayB.
 - (c) Math : Add, Subtract, Multiply.
5. Display
 - (a) Display type : TFT Color Display 5.6inch 320 x 23
6. General Specification
 - (a) Waveform Storage : Internal storage of setups, waveforms, USB, BMP, CSV, Waveforms, Setups.
 - (b) I/O : USB or RS232
 - (c) Probes for Analog Channels : Probe x 2 (10x)
 - (d) Probes for Digital channels : Should provide 16 channels logic probes.
7. Power Supply : 230 Volts +/-10%, 50 Hz AC Supply
8. Operating Condition : 10 to 40 deg. C and 80% RH at 30 degree C

(III) Mixed Signal Oscilloscope 350 MHz 4 Analog and 16 Digital Channels Colour Display

1. Input Channels : 4 Analog Channel + External Triggering + 16 (Logic Analyser)
2. Analog Characteristics
 - (a) Bandwidth : 350 MHz on all channels.
 - (b) Number of Channels : 4
 - (c) Record Length : 2.5 M points on one channel.
 - (d) Sample Rate : 2 GS per second
 - (e) Time base range : Normal ,Peak, Detect ,Averaging.
 - (f) Acquisition Mode : Sample rate,Peak Detect, Averaging.
 - (g) Resolution : 8 bits
 - (h) Input sensitivity : 2 mV/div. to 5 div
3. Digital Channels
 - (a) Channels : 16 Channels.
 - (b) Record Length : 8 M points.
 - (c) Sampling rate : 2 GS/s.
4. Trigger
 - (a) Trigger types : Edge, Pulse, Slope, Video, Alternate, Pattern and Duration.
 - (b) Auto Measure : Vpp, Vmax. Vmin, Vtop, Vbase, Vrms, Vavg, Vover, Vpre, Freq. Period, Rise, Fall, + Width, - Width, +Duty, -Duty, DelayA, DelayB.
 - (c) Math : Add, Subtract, Multiply.
5. Display

- (a) Display type : TFT Color Display 5.6inch 320 x 23
- 6. General Specification
 - (a) Waveform Storage : Internal storage of setups, waveforms, USB, BMP, CSV, Waveforms, Setups.
 - (b) I/O : USB or RS232
 - (c) Probes for Analog Channels : Probe x 2 (10x)
 - (d) Probes for Digital channels : Should provide 16 channels logic probes.
- 7. Power Supply : 230 Volts +/-10%, 50 Hz AC Supply
- 8. Operating Condition : 10 to 40 deg. C and 80% RH at 30 degree C.

(IV) Mixed Signal Oscilloscope 500 MHz 4 Analog and 16 Digital Channels Colour Display

- 1. Input Channels : 4 Analog & 16 Digital Channels should be integrated into one instrument chassis without requiring any external module connection.
- 2. Analog Characteristics
 - (a) Bandwidth : 500 MHz on all channels
 - (b) Number of Channels : 4
 - (c) Record Length : 8 M points
 - (d) Sample Rate : 2 GS per second
 - (e) Time base range : 1nsec/div to 50 sec/div
 - (f) Acquisition Mode : Sample rate, Peak Detect, Averaging, High resolution
 - (g) Resolution : 8 bits
 - (h) Input sensitivity : 2 mV/div. to 5 div
- 3. Digital Channels
 - (a) Channels : 16 Channels that can be easily accessed from the front panel
 - (b) Record Length : 8 M points
 - (c) Sampling rate : 500 MS/s
 - (d) Min. Detectable Pulse width : 2 ns.
- 4. Trigger
 - 4. Trigger
 - (a) Trigger types : Edge, Sequence, Pulse Width, should be available across all Analog and Digital Channel.
 - (b) Measurement & Maths: Built-in Measurement like time, period frequency, risetime, fall time, etc, with Advance math like integrate, differntiate, FFT along with Add, substract, divide and multiply.
- 5. Disply
 - (a) Display type : 6.3 inches XGA Colour Display
- 6. General Specification
 - (a) Waveform Storage : Internal storage of setups, waveforms, USB, Standard.
 - (b) PC Connectivity : Standard, LAN, USB Ports.
 - (c) Probes for Analog Channels : Passive probes 500 MHz, 10 X, 1 per channel.
 - (d) Probes for Digital channels : Should provide 16 channels logic probes.
- 7. Power Supply : 230 Volts +/-10%, 50 Hz AC Supply8.
- 8. Operating Condition : 10 to 40 deg. C and 80% RH at 30 degree C

(V) Mixed Signal Oscilloscope 1 GHZ 4 Analog and 16 Digital Channels
Colour Display

1. Input Channels : 4 Analog & 16 Digital Channels should be integrated into one instrument chassis without requiring any external module connection.
2. Analog Characteristics
 - (a) Bandwidth : 1 GHZ on all channels.
 - (b) Number of Channels : 4
 - (c) Record Length : 8 M points
 - (d) Sample Rate : 2 GS per second
 - (e) Time base range : 500 p.sec/div
 - (f) Acquisition Mode : Sample rate, Peak Detect, Averaging, High resolution.
 - (g) Resolution : 8 bits
 - (h) Input sensitivity : 2 mV/div. to 5 div
3. Digital Channels
 - (a) Channels : 16 Channels that can be easily accessed from the front panel
 - (b) Record Length : 8 M points
 - (c) Sampling rate : 500 MS/s
 - (d) Min. Detectable Pulse width : 2 ns.
4. Trigger
 4. Trigger
 - (a) Trigger types : Edge, Sequence, Pulse Width, should be available across all Analog and Digital Channel.
 - (b) Measurement & Maths: Built-in Measurement like time, period frequency, rise time, fall time, etc, with Advance math like integrate, differntiate, FFT along with Add, substack, divide and multiply.
5. Disply
 - (a) Display type : 6.3 inches XGA Colour Display
6. General Specification
 - (a) Waveform Storage : Internal storage of setups, waveforms, USB, Standard.
 - (b) PC Connectivity : Standard, LAN, USB Ports.
 - (c) Probes for Analog : 2 Passive probes 500 MHz, 10 X, 1 per channel. Channels
 - (d) Probes for Digital : Should provide 16 channels logic probes. channels
7. Power Supply : 230 Volts +/-10%, 50 Hz AC Supply8.
8. Operating Condition : 10 to 40 deg. C and 80% RH at 30 degree C

Extended warranty from 3 Years to 5 Years including Labour & parts

Specification : As per General Technical Requirement.

Additional Calibration Charges from 1 year to 3 years

Specification : As per General Technical Requirement.



LIST OF ALL AMENDMENTS

For RC No. Oscope/IT-3/RC-D2040000/0312/83/F0710/1729

NOTE: No Amendments issued till date 28-MAR-11

A handwritten signature in blue ink, appearing to be 'S. S.', is located in the upper right quadrant of the page.