

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:
KAVINDRA SINGH BRIJWAL
Email Id:
ksbrijwal@gmail.com

Rate Contract no. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812
Dated 19-OCT-15

To,

ROHDE & SCHWARZ INDIA PVT LTD
A-27, FIRST FLOOR MOHAN CO-OPERATIVE INDUSTRIAL
ESTATE, MATHURA ROAD,
NEW DELHI - 110044

Contact Person: Mr. Suvrat Verma, Mob.9899020352, Mr. Nasser Jariwala,
Mob.9820418813
NEW DELHI

Sub: Rate Contract for supply of Signal Analyzer
Validity: From 19-OCT-15 To 22-JAN-16 .

Ref:(1) This Office Tender Enquiry No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84
Opened on 02-JUL-15.
(2) Your Quotation No. 7470 And Dated
10-JUN-15.

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 including DGS&D Arbitration Clause available from DGS&d sales counter on payment of Rs. 50/- The dispute cannot be referred by the contractor or entertained by facilitation Council or any other adjudicating forum. 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,

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Assistant Director(S)/Section Officer/Dy. Director/Director/DDG(S)
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.
- 16.Concerned CQA(for defence item only)-As per Clause 19 of RC
- 17.Concerned SQAQO(for defence item only)-As per Clause 20 of RC

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

SCHEDULE - A

1.Rate Contract No.:SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812

Dated 19-OCT-15 For the Supply of Signal Analyzer

2.Advance Rate Contract No.: Nil

Dated

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

ROHDE & SCHWARZ INDIA PVT LTD
A-27, FIRST FLOOR MOHAN CO-OPERATIVE
INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI - 110044
Contact Person: Mr. Suvrat Verma, Mob.9899020352, Mr.
Nasser Jariwala, Mob.9820418813
NEW DELHI
DELHI - 110044
Tel. No. - 011-42535400 Extn.232
Fax - 011-42535400 Extn.233
Email - suvrat.verma@rohde-schwarz.com

(b) Name and Full Address of Manufacturer :-

Rohde and Schwarz GmbH and Co KG,
Muehldorfstrasse 15 81671,
Munchen, Germany

(c) Brand: R&S

4.Validity of Rate Contract: 19-OCT-15 To 22-JAN-16

5.Description of Item, Specification,Unit, Rate

Item Model No.	Store Description	ED	ED%	CST/VAT	CST/VAT%	Service Tax	Unit	Rate (in Rs)
1	R&S FSV4 Signal and spectrum analyzer 10Hz to 4GHz	Signal Analyzers of various Frequency Ranges	Frequency	Range: 20 Hz to 3 GHz,Capture	Bandwidth: 10 MHz		NOS.	1756950 Rs. SEVENTEE N LAKHS FIFTY-SIX THOUSAN D NINE HUNDRED FIFTY ONLY
		N.A		Excl.		5		
		Min.Order Qty(in unit):- 1		Lead Time(in days):-45		Rate of Supply(monthly):-30		
2	R&S FSV7 Signal and spectrum	Signal Analyzers of various Frequency Ranges	Frequency	Range: 20 Hz to 6 GHz,Capture	Bandwidth: 10 MHz		NOS.	2320500 Rs. TWENTY-

analyzer 10Hz
to 7GHz

THREE
LAKHS
TWENTY
THOUSAN
D FIVE
HUNDRED
ONLY

N.A

Excl.

5

Min.Order Qty(in unit):- 1

Lead Time(in days):-45

Rate of Supply(monthly):-30

4	R&S FSV7 Signal and spectrum analyzer 10Hz to 7GHz	Signal Analyzers of various Frequency Ranges	Frequency GHz,Capture	Range: 9 KHz to 6 Bandwidth: 40 MHz	NOS.	2437500 Rs. TWENTY- FOUR LAKHS THIRTY- SEVEN THOUSAN D FIVE HUNDRED ONLY
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N.A

Excl.

5

Min.Order Qty(in unit):- 1

Lead Time(in days):-45

Rate of Supply(monthly):-30

5	R&S FSV30 Signal and spectrum analyzer 10Hz to 30GHz	Signal Analyzers of various Frequency Ranges	Frequency GHz,Capture	Range: 9 KHz to 20 Bandwidth: 40 MHz	NOS.	2827500 Rs. TWENTY- EIGHT LAKHS TWENTY- SEVEN THOUSAN D FIVE HUNDRED ONLY
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N.A

Excl.

5

Min.Order Qty(in unit):- 1

Lead Time(in days):-45

Rate of Supply(monthly):-30

6-Terms of Delivery:

Free delivery at site (i.e. at consignee's place) including
installation / commissioning.

7-Excise Duty:

ED NA at present and will not be charged even if it is
applicable later on.

8-Sales Tax:

CST / VAT Extra @ 5%.

9-Delivery Period:

As mentioned under each item above.

10(a)-Annual Turnover:

- 0 -

(b)-Monetary Limit(In Rs.):

Without Any Limit

11-Payment Terms:

90% against provisional receipt of stores by consignee, after
delivery of stores by Green Channel firms on selfcertification
with OEM warranty/Guarantee certificate and balance 10% on
acceptance of stores by consignee within 60 days of receipt of
stores.

12-Slab Discount Clause:

Applicable

([Click here to see the details](#))

Value From	To	% Discount
20000000	40000000	1
50000000	70000000	1.5
80000000	100000000	1.75
110000000	140000000	2
150000000	190000000	3

13-Prices:

FIXED

14-Quantity Offered:

As mentioned each item.

15-Minimum Quantity in Single Supply Order:

16-Minimum order Value in Single Supply Order:

17-Status of the RC Holding Firm:

LSI

18-Paying Authority:

PAO,User Deptt

(a)The payment to the suppliers in all the adhoc Contract (A/Ts) and / or Supply Order placed against DGS&D Rate Contracts shall be made directly by indentors i.e. order placing authority through their concerned Pay & Accounts Offices only, instead of CCA(Supply) or its Regional Pay & Accounts Offices of Department of Commerce.

(b)The payment to the supplier shall be paid by the indentors as per prescribed forms of payments including timelines for payments within 60 days of due date which must be ensured by the indentors.Delays,if any, in this regard would render the indentors responsible and not the DGS&D in any manner whatsoever.

(c)Consequently,the requisite Departmental charges + prevailing Service Tax thereon shall be deposited by the respective Pay & Account offices (PAO) of the indentors directly to the Receipt Head Account of DGS&D as prescribed by CGA.

(d)Indentors shall be directly responsible for any non-compliance/default for the afore-said provisions.

19-Inspection Authority:

Not applicable since the firm is holding Green channel status for subject stores

20-Quality Assurance Officer/Inspecting officer:

-do-

For stores procured against DGS&D Rate Contract the Inspection Officer would be:

- (i) User Departments/DDO/Consignee itself or any authority/agency appointed by them or
- (ii) Additional Director General (QA) in DGS&D (if desired by user Departments/DDO/Consignee).

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

Not Applicable being Green Channel Firm

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

24- Departmental Charges : Departmental charges at the rates prescribed by government from time to time shall be levied,for the services rendered by the Directorate General of Supplies and Disposal,in regard to Purchase & Inspection. The rates currently applicable for departmental charges in regard to purchase and inspection of stores against DGS&D R/C.

24(a) For Purchase : - Departmental Charges will be levied @ 1.0% of the value of the contract or supply order placed against the DGS&D rate contract.

24(b) For Inspection :- Departmental Charges will be levied @ 1.0% of the value of the contract or supply order placed against the DGS&D rate contract.

24(c). The value of the Contract or Supply Order shall be all inclusive basis including all taxes & duties. Service tax at prevailing rate as applicable shall be chargeable as extra on the Departmental Charges.

24(d) Such direct/referral Supply Orders being placed by various Government users on Rate Contract holding firms or their dealers/sub agents,obtaining supplies and making direct payments to the firms for the cost of stores prescribed in the Rate Contracts are liable to pay a nominal fee as Departmental Charges @0.25% of the value of Supply Order (all inclusive including taxes & duties) + Service Tax extra as applicable. After receipt of Supply Order,the firm will deposit the said Departmental charges + service tax thereon at the rates provided in the R/C to the concerned Controller of Accounts (CCA) viz. Delhi/Mumbai/Kolkata/Chennai, as the case may be ,as indicated in the R/C by way of Demand Draft/Bank Transfer. In case , the supplies are made in installments, the aforesaid Departmental charges + Service Tax can be paid by the firm with CCA on pro-rata basis based on the value of the supplies made. In case no supplies are made, Departmental charges would not be payable / claimable as no service would deem to have been rendered by DGS&D. The firms can claim Departmental charges from PAO of the indentor for the direct/referral orders placed by them.Those who err/conceal/misrepresent/default in payment of prescribed Department Charges would be viewed adversely and shall be liable for actions as deemed fit by DGS&D including de-registration,debaring or suspension of business dealings,blacklisting , bad performance and denial of further Rate Contracts etc, in addition to recovery of the requisite amounts.IT would be the responsibility of the user department to ensure that the prescribed departmental charges have been paid by the supplier before releasing their payments for the supplies. The firm would also disclose the same to DGS&D.

24(e) The Referral /Direct Orders placed by the indentor by tweaking DGS&D Rate Contract terms & condition and/or Specifications and obtaining the supplies within 1% of the DGS&D Rate Contract prices, such transactions will fall within the purview of DGS&D Rate Contract and will also attract the aforesaid Departmental Charges @0.25% of the value of stores ordered and supplied alongwith applicable Service Tax thereon.

24(f) In the event of placing such Referral/Direct Supply Orders, indentors shall send e-mail to DGS&D for which a special provision would be provided on DGS&D website. While the indentors placing on-line Supply Order on DGS&D e-procurement portal shall have the protection under the terms & conditions of DGS&D Rate Contract, the same would not be available in case they choose to place paper Supply Order and such transactions would be at their own risk.

25.DGS&D reserves the right for pre-dispatch inspection at manufacturer"s premises or consignee end inspection after receipt of stores or at both places,at the option of indentors.

26.Jurisdiction/Arbitration Clause

a)Jurisdiction will be the place of issue of the rate contract.Sole Arbitrator will be appointed by DG(S&D).For details refer Clause-23 of DGS&D-1001.Further,where the Contract/Rate Contract is governed by DGS&D arbitration clause,the dispute cannot be referred by the supplier or entertained by Facilitation Council or any other Adjudicating Forum.

b)The arbitrary as appointed under provisions of para 18.1.1 of DGS&D Mannual shall adjudicate only on the disputes arising out of interpretation of terms & conditions stipulated in Rate Contracts.For settlement of disputes relating to execution of supply orders placed by various Direct Demanding officers (DD0s)/Indentors against DGS&D Rate Contracts, each DDO/INDENTOR shall himself nominate an arbitrator at the time of placement of supply orders,as per guidelines/instructions for appointment of arbitrator in indenting organisation.

c)DGS&D or its regional offices shall not be made a party in any dispute relating to execution of Supply Order placed by DDO/Indentor against DGS&D Rate Contracts including the case filed in MSME Facilitation Councils.

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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

Guaranty/Warranty Certificate : It is certified that the stores supplied are brand new,unused,non-refurbished and original and they full confirm to the technical specifications and description given in the subject Rate contract.It is further certified that the supplied stores are covered by the OEM Guaranty/Warranty as per the Subject Rate Contract.
TEST REPORTS FOR REGISTRATION AND ACCEPTANCE OF GOODS:

In case of products having satisfactory test reports from International Laboratory Accreditation Cooperation (ILAC) or their worldwide affiliated/recognized labs or NABL approved labs, it would be sufficient to consider the products of requisite quality for acceptance without insistence for any further testing pursuant to DGS&D Manual Correction Slip No. 38 dated 18-12-2012.

RC Specification:1 Country of origin: Germany

2. Name and Address of foreign manufacturer:- Rohde & Schwarz GMBH & Co. KG Muhldorfstrasse, Munich 81671, Germany.

3. Models against item Nos. 1, 2, 4 and 5 mentioned under Clause-5 of Schedule-A may be read as under :-

Item No.1

Model No. R&S FSV4 Signal and spectrum analyzer 10Hz to 4GHz, With Options FSV-B4 OCXO, FSV-B70 Extension to 40MHz signal analysis bandwidth, FSV-K7 Analog modulation analysis for AM, FM, PM, FSV-K70 - Vector signal analysis application for modulation analysis of digital modulated single carrier signals and 3 Yr Warranty as Standard.

Item No.2

R&S FSV7 Signal and spectrum analyzer 10Hz to 7GHz, With Options FSV-B4 OCXO, FSV-B70 Extension to 40MHz signal analysis bandwidth,FSV-K7 Analog modulation analysis for AM, FM, PM, FSV-K70 - Vector signal analysis application for modulation analysis of digital modulated single carrier signals and 3 Yr Warranty as Standard.

Item No.4

Model No. R&S FSV7 Signal and spectrum analyzer 10Hz to 7GHz, With Options FSV-B4 OCXO, FSV-B70 Extension to 40MHz signal analysis bandwidth, FSV-K7 Analog modulation analysis for AM, FM, PM, FSV-K14 Spectrogram measurement application, FSV-K70 - Vector signal analysis application for modulation analysis of digital modulated single carrier signals and 3 Yr Warranty as Standard.

Item No.5

Model No. R&S FSV30 Signal and spectrum analyzer 10Hz to 30GHz, With Options FSV-B4 OCXO, FSV-B70 Extension to 40MHz signal analysis bandwidth, FSV-K7 Analog modulation analysis for AM, FM, PM, FSV-K14 Spectrogram measurement application, FSV-K70 - Vector signal analysis application for modulation analysis of digital modulated single carrier signals and 3 Yr Warranty as Standard.

4. Place of Inspection: M/s Rohde and Schwarz India Pvt. Ltd.,
Branch Centre Bangalore,
Tower D 1st Floor, RMZ Infinty 3 Old Madras Road,
Bangalore - 560016.

5. 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. Warranty Terms : The periof of Guarantee / warranty would be 36 months from the date of receipt of stores by consignee or 15 months from the date of despatch whichever is earlier as per clause 27 of DGS&D 230 OF Clause-18 of DGS&D- 1001

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

Guaranty/Warranty Certificate : It is certified that the stores supplied are brand new,unused,non-refurbished and original and they full confirm to the technical specifications and description given in the subject Rate contract.It is

further certified that the supplied stores are covered by the OEM Guaranty/Warranty as per the Subject Rate Contract.

TEST REPORTS FOR REGISTRATION AND ACCEPTANCE OF GOODS:

In case of products having satisfactory test reports from International Laboratory Accreditation Cooperation (ILAC) or their worldwide affiliated/recognized labs or NABL approved labs, it would be sufficient to consider the products of requisite quality for acceptance without insistence for any further testing pursuant to DGS&D Manual Correction Slip No. 38 dated 18-12-2012.
Page 9 of 17 Download Date: 19-OCT-15

4. 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 indenter concerned, to avoid payment of such local taxes or duties. Octroi, entry tax etc. on buyers account in absence of relevant exemption certificate.

5. Supply of Road Permits/ Way bill by the indenter/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 indenter/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 Indenter/consignee.

(b) On receipt of the above request from the supplier, the indenter/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 indenter/consignee.

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

6. Signing of Inspection Notes issued by QA Wing of DGS&D :

Instructions to Indentors/Consignees. Advance Payment Copy of Inspection Note for claiming 90% / 80% 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 contract. 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 10% / 20% balance payment.

Within 60 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.

7 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 M/s.Rohde & Schwarz.

8. Discount against CDE Clause:

- a) 17.7% against valid CDE certificate, for eligible Defense customers as per custom notification 39/96.
 - b) 10% against valid CDE Certificate for eligible customers of Education institute as per custom notification 51/96.
- All other terms and conditions shall be as per standard conditions contained in Form DGS&D-1001.

SCHEDULE-D

SPECIAL INSTRUCTIONS TOR TO R/C HOLDERS

1. Rate Contract holders are advised that before entertaining the supply order(s), they should ensure the availability of following certificates from DDOs.

- a) They are Central Government Department drawing funds from Consolidated Fund of India.
- b) The expenditure involved for the purchase has received the sanction of the competent financial authority.
- c) The funds are available under the proper head in the sanctioned budget allotment for the year.
- d) They have been fully authorized by the Department to sign the supply order and incur the liability in respect of the stores being ordered.

2. The rate contract holders should assist the consignee(s) in the installation and operation of the machine, including recommendations for accessories and voltage stabilizer.

(K. S. Brijwal)

Assistant Director(S)

For and on behalf of the purchaser named in the form DGS&D-1001

SCHEDULE - C

List of Parallel Rate Contract For Signal Analyzer

Sr.No.	NAME & FULL ADDRESS OF FIRM	R/C NO & DATE
1	ROHDE & SCHWARZ INDIA PVT LTD A-27, FIRST FLOOR MOHAN CO-OPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI - 110044 Contact Person: Mr. Suvrat Verma, Mob.9899020352, Mr. Nasser Jariwala, Mob.9820418813 NEW DELHI DELHI 110044	SIGNAL_ANA/IT-4/RC- D2080000/0516/84/OC017/1812 19-OCT-15

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

(A) TYPE TEST :

1. All products (except rack mount kit) shall be type tested as per detailed specification of each item, including environmental tests given below.
2. The Type Test Reports (TTCs) shall be required at the time of registration & inspection.
3. Suppliers shall furnish complete and satisfactory type test certificate (TTC) for each model. In addition the test reports from Central Government labs, Test reports from NABL / ILAC approved labs shall also be acceptable.
4. Type test reports shall indicate declared/required value and measured value of the quantitative parameters. TTCs containing vague words like "passed", "meeting the requirements", "OK", "OEM declared", "verified with brochure" etc. in the column of result/observed values shall not be acceptable.
5. Environmental Test Sequence :

Type Test Reports shall include verification of all features & functional parameters as per T/E specification and environmental tests sequence, as under:

- (i) Dry Heat Test : For 16 hrs. at a temp. of 55 degree C in accordance with IS:9000/ part-3/section-5/1977 (reaffirmed 2004).
- (ii) Cold Test : For 4 hrs. at a temp. of (-)10 degree C in accordance with IS:9000/ part-2/section-4/1977 (reaffirmed 2004).
- (iii) Damp Heat Test : For 2 Cycles of 24 hours (12+12h) each at a temp. of 40 degree C & 95 % RH in accordance with IS:9000/ part-5/section-2/1981 (reaffirmed 2004).

The analyzer shall be checked for all the functional requirements before and after 1-2 hours of recovery period after the completion of the above environmental tests sequence. There shall be no deterioration in the functional parameters.

6. Tests for operating temperature conditions shall also be a part of the type test reports.

(B) ACCEPTANCE TESTS :

1. The firm shall have all the testing facilities and instruments to check and verify all the parameters.
2. Acceptance tests shall be carried out on 10% samples of the items, of each type, offered for inspection.
3. Acceptance tests shall include verification of all features of the equipment as per T/E specification.
4. Firm shall have environmental chamber of suitable range to check operating temperature range of the equipment. The equipment shall be subjected to the

following tests, with the equipment switched ON:

- (i) Equipment shall be kept at the lowest temperature of the operating temperature range for 2 hours and frequency drift shall be checked during this period. The frequency drift shall be within limits.
 - (ii) Equipment shall be kept at the highest temperature of the operating temperature range for 4 hours and frequency drift shall be checked during this period. The frequency drift shall be within limits.
 - (iii) Equipment shall be kept at 40 deg celcius and 80% RH for 4 hours and frequency drift shall be checked during this period. The frequency drift shall be within limits.
5. The scope of supply shall include one set of operation and maintenance manual for each equipment.

Signal Analyzers of various Frequency Ranges

"Signal Analyzers for capture and analysis of transient signals for applications such as Radars and Surveillance"

(A) Signal Analyzer 20 Hz to 3 GHz with 10 MHz capture bandwidth

- 1. Frequency Range : 20 Hz to 3 GHz
- 2. Capture bandwidth : 10 MHz
- 3. Time correlated Multi Domain Analysis : Time, Frequency, Modulation
- 4. Trigger : Free Run, External
- 5. Traces Types : Normal (RMS) , Average, Max. Hold, Min. Hold
- 6. Modulation Analysis : AM, FM, PM, BPSK, QPSK, IT/4DQPSK, 8PSK, 16SQAM, 32QAM, 64QAM, 128QAM, 256QAM, GMSK,GFSK
- 7. Total Frequency Error : $< 1 \times 10^{-7}$ per year(suitable documents shall be provided in support of this parameter)
- 8. Memory Depth : 64 MB
 - (a) Span in Real time Spectrum Analyzer : 10 MHz
 - (b) Sample Rate : 50 MS/s
- 9. Displayed Average Noise Level: -140 dBm /Hz (Typical), 10 MHz to 3 GHz
- 10. Pre-defined Measurements : Channel Power, ACPR, Carrier to Noise Ratio,Occupied BW, Carrier frequency, CCDF
- 11. Automatic Measurement (Time Mode) : IQ vs Time, Power vs Time, Frequency vs Time CCDF, crest factor, Pulse Measurements : Pulse Width, Pulse Peak Power, On/Off Ratio, Pulse Ripple, Pulse Repetition Interval, Duty Cycle Pulse-Pulse, Phase, Channel Power, OBW, Frequency Deviation
- 12. Phase Noise Measurement : 10 Hz to 10 MHz freq. Offset
- 13. Interface : USB
- 14. Operating temperature : 5 to 40 degree C temperature and 80% RH at 40 degree C

15 Power Requirement : 230+/- 10% VAC, 50Hz

(B) Signal Analyzer 20 Hz to 6 GHz with 10 MHz capture bandwidth

1. Frequency Range : 20 Hz to 6 GHz
2. Capture bandwidth : 10 MHz
3. Time correlated Multi Domain Analysis : Time, Frequency, Modulation
4. Trigger : Free Run, External
5. Traces Types : Normal (RMS) , Average, Max. Hold, Min. Hold
6. Modulation Analysis : AM, FM, PM, BPSK, QPSK, IT/4DQPSK, 8PSK, 16SQAM, 32QAM, 64QAM, 128QAM, 256QAM, GMSK, GFSK
7. Total Frequency Error : < 1×10^{-7} per year (suitable documents shall be provided in support of this parameter)
8. Memory Depth : 64 MB
 - (a) Span in Real time Spectrum Analyzer : 10 MHz
 - (b) Sample Rate : 50 MS/s
9. Displayed Average Noise Level, 10 MHz to 6 GHz : -140 dBm /Hz
10. Pre-defined Measurements : Channel Power, ACPR, Carrier to Noise ratio, Occupied BW, Carrier frequency, CCDF.
11. Automatic Measurement (Time Mode) : IQ vs Time, Power vs Time, Frequency vs Time CCDF, crest factor, Pulse Measurements: Pulse Width, Pulse Peak Power, On/Off Ratio, Pulse Ripple, Pulse Repetition Interval, Duty Cycle, Pulse-Pulse, Phase, channel Power, OBW, Frequency Deviation
12. Phase Noise Measurement : 10 Hz to 10 MHz Freq. Offset
13. Interface : USB
14. Operating temperature : 5 to 40 degree C temperature and 80% RH at 40 degree C
15. Power Requirement : 230+/- 10% VAC, 50Hz

(C) Signal Analyzer 9 KHz to 13 GHz with 40 MHz capture bandwidth

1. Frequency Range : 9 kHz to 13 GHz
2. Maximum Demodulation Bandwidth : 40 MHz
3. I/Q Memory Depth : 256 MB
4. Trigger : Power Trigger, External
5. Traces Types : Normal (RMS) , Average, Max. Hold, Min. Hold
6. Sample Rate : Min 100 Ms/s
7. Ref Frequency Ageing : 1×10^{-7}
8. Measurement Range : DANL to Max Safe input level
9. Max. Safe Input Level : +30 dBm
10. Displayed Average Noise Level dBm/Hz : -130 dBm /Hz (10 MHz to 13GHz)
11. Analog Modulation : FM/PM/AM
12. Digital Demodulation modes : BPSK, QPSK, 8PSK, 16QAM, 64QAM, 256QAM,
13. Multi Domain Analysis with Stand Alone Software : Time, Frequency, Modulation, Spectrogram
14. Pre-defined Measurements : Channel Power, ACPR, Carrier to Noise

Ratio,Occupied BW, Carrier frequency,
Emission BW, CCDF, dB/Hz Mkr, dBc/Hz
MKr,Pulse Characteristics

- 15. Interface : USB
- 16. Operating temperature : 5 to 40 degree C temperature and 80% RH at 40 degree C
- 17. Power Requirement : 230+/- 10% VAC, 50Hz

(D) Signal Analyzer 9 KHz to 6 GHz with 40 MHz capture bandwidth

- 1. Frequency Range : 9 kHz to 6 GHz
- 2. Maximum Demodulation Bandwidth : 40 MHz
- 3. I/Q Memory Depth : 256 MB
- 4. Trigger : Power Trigger, External
- 5. Traces Types : Normal (RMS) , Average, Max. Hold, Min. Hold
- 6. Sample Rate : Min 100 Ms/s
- 7. Ref Frequency Ageing : 1×10^{-7}
- 8. Measurement Range : DANL to Max Safe input level
- 9. Max. Safe Input Level : +30 dBm
- 10. Displayed Average Noise Level dBm/Hz (10 MHz to 6 GHz) : -130 dBm /Hz
- 11. Analog Modulation : FM/PM/AM
- 12. Digital Demodulation modes : BPSK, QPSK, 8PSK, 16QAM,64QAM, 256QAM,
- 13. Multi Domain Analysis with Stand Alone Software : Time, Frequency, Modulation, Spectrogram
- 14. Pre-defined Measurements : Channel Power, ACPR, Carrier to Noise Ratio,Occupied BW, Carrier frequency, Emission BW, CCDF, dB/Hz Mkr, dBc/Hz MKr,Pulse Characteristics
- 15. Interface : USB
- 16. Operating temperature : 5 to 40 degree C temperature and 80% RH at 40 degree C
- 17. Power Requirement : 230+/- 10% VAC, 50Hz

(E) Signal Analyzer 9 KHz to 20 GHz with 40 MHz capture bandwidth

- 1. Frequency Range : 9 kHz to 20 GHz
- 2. Maximum Demodulation Bandwidth : 40 MHz
- 3. I/Q Memory Depth : 256 MB
- 4. Trigger : Power Trigger, External
- 5. Traces Types : Normal (RMS) , Average, Max. Hold, Min. Hold
- 6. Sample Rate : Min 100 Ms/s
- 7. Ref Frequency Ageing : 1×10^{-7}
- 8. Measurement Range : DANL to Max. Safe input level
- 9. Max. Safe Input Level : +30 dBm
- 10. Displayed Average Noise Level dBm/Hz (10 MHz to 20 GHz) : -130 dBm /Hz
- 11. Analog Modulation : FM/PM/AM
- 12. Digital Demodulation modes : BPSK, QPSK, 8PSK, 16QAM,64QAM, 256QAM,
- 13. Multi Domain Analysis with Stand Alone Software : Time, Frequency, Modulation, Spectrogram
- 14. Pre-defined Measurements : Channel Power, ACPR, Carrier to Noise Ratio,Occupied BW, Carrier frequency, Emission BW, CCDF, dB/Hz Mkr, dBc/Hz MKr,Pulse Characteristics

- 15. Interface : USB
- 16. Operating temperature : 5 to 40 degree C temperature and 80% RH at 40 degree C
- 17. Power Requirement : 230+/- 10% VAC, 50Hz.

LIST OF ALL AMENDMENTS

For RC No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812

NOTE: No Amendments issued till date 21-OCT-15

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

Digitally signed by:
KAVINDRA SINGH BRIJWAL
Email Id:
ksbrijwal@gmail.com

Amendment No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812/57129

Dated: 06-JAN-16

Effective Date: 19-OCT-15

To

M/S ROHDE & SCHWARZ INDIA PVT LTD

A-27, FIRST FLOOR MOHAN CO-OPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI - 110044

Contact Person: Mr. Suvrat Verma, Mob.9899020352, Mr. Nasser Jariwala, Mob.9820418813

NEW DELHI

DELHI-110044.

Sub : This office R/C No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812

Dated 19-OCT-15 for the Supply of Signal Analyzer.

Ref : Your Letter No. Nil Dated .

Dear Sir,

The following amendment to the schedule of the subject Rate Contract is hereby authorised :-

UNDER SCHEDULE-A

Against Clause-8 i.e. Discount against CDE Clause in Schedule-B of subject Rate Contract:-

FOR: The existing entries.

READ: Discount against CDE Clause:-

- a) 6% against valid CDE certificate, for eligible Defence customers as per custom notification 39/96.
- b) 10% against valid CDE Certificate for eligible customers of Education institute as per custom notification 51/96.
- c) Discount against Custom Duty Exemption / Waiver Certificate:-
 - (i) Wherever, Indentor / Consignee shall provide Custom Duty Exemption / Waiver Certificate, the R/C holder shall submit the certified copies of Bill of Entries to the Indentor / Consignee at the time of delivery.
 - (ii) The R/C holder shall also submit certified copies of relevant Notifications, as amended from time to time, and / or other supporting documents indicating the Assessable value of the item, if applicable, and the Rate of Custom Duty applicable on the Item, to the Indentor / consignee.
 - (iii) Indentor / Consignee shall calculate the custom duty waiver / exemption amount keeping in view of the CIP value indicate in Bill of Entries / Assessable value of the item, as the case may be and Custom Duty Waiver / Exemption Certificate given by them.
 - (iv) The amount of custom duty waiver / exemption amount, as calculated above, shall be endorsed in the consignee receipt certificate (CRC) for recovery from the RC holder. It shall be explicitly stipulated in the CRC that recovery is on account of Custom Duty Waiver / Exemption Certificate.

Note:- The applicable rate of Custom Duty for the items, as offered by R/c holder may be indicated in the RC for Indentor / consignee guidance. However, it shall be the Indentor / Consignee's responsibility to ensure that custom duty waiver / exemption amount is properly calculated at the then prevailing rate of Custom Duty.

All other terms and conditions of the R/C Shall remain unaltered.

Please ack. receipt.

Yours faithfully,

(Section Officer/A.D./D.D./Director/DDG(S))
For & on behalf of Purchaser named in DGS&D-1001

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).

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

Amendment No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812/56725

Dated: 05-FEB-16

Effective Date: 02-FEB-16

To
M/S ROHDE & SCHWARZ INDIA PVT LTD
A-27, FIRST FLOOR MOHAN CO-OPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI - 110044
Contact Person: Mr. Suvrat Verma, Mob.9899020352, Mr. Nasser Jariwala, Mob.9820418813
NEW DELHI
DELHI-110044.

Sub : This office R/C No. SIGNAL_ANA/IT-4/RC-D2080000/0516/84/OC017/1812
Dated 19-OCT-15 for the Supply of Signal Analyzer.

Ref : Your Letter No. Nil Dated 02-FEB-16.

Dear Sir,

The following amendment to the schedule of the subject Rate Contract is hereby authorised :-

UNDER SCHEDULE-A

Rc Period From : 19-OCT-15 **To :** 31-OCT-16

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All other terms and conditions of the R/C Shall remain unaltered.
Please ack. receipt.

Yours faithfully,

(Section Officer/A.D./D.D./Director/DDG(S))
For & on behalf of Purchaser named in DGS&D-1001

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).