

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.gov.in

Rate Contract no. L.I.UPS/IT-4/RC-D3010000/0510/84/02922/1321
Dated 24-DEC-09

To,

INTEX INDUSTRIES
Phase-I, SIDCO Industrial Complex, Bari Brahmna, Jammu

Mr. M.M.Gupta: 09971533533
Mr.Naveen Kumar: 09958393913

Sub: Rate Contract for supply of Line Interactive UPS
Validity: From 24-DEC-09 To 31-MAY-10 .

Ref:(1) This Office Tender Enquiry No. L.I.UPS/IT-4/RC-D3010000/0510/84
Opened on 13-OCT-09.
(2) Your Quotation No. INTEX/UPS/MM/NK- 2345 And Dated
06-OCT-09.

Dear Sir,

You are hereby informed that your above refered 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,

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

SCHEDULE - A

1. Rate Contract No.: -L.I.UPS/IT-4/RC-D3010000/0510/84/02922/1321
Dated 24-DEC-09 For the Supply of Line Interactive UPS

2. Advance Rate Contract No.: - Nil
Dated

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

INTEX INDUSTRIES
Phase-I, SIDCO Industrial Complex, Bari Brahmna, Jammu

Mr. M.M.Gupta: 09971533533
Mr.Naveen Kumar: 09958393913

JAMMU KASHMIR - 181133
Tel. No. - 01923 220290
Fax -
Email - intexindus@intextechnologies.com

(b) Name and Full Address of Manufacturer :-

INTEX INDUSTRIES
Phase-I, SIDCO Industrial Complex, Jammu

(c) Brand: INTEX

4. Validity of Rate Contract: 24-DEC-09 To 31-MAY-10

5. Description of Item, Specification, Unit, Rate

Item No.	Model No.	Store Description	Rated KVA: ,Minimum VAH:	Unit	Rate (in Rs.)
2	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	0.5, Minimum VAH: 168	NOS.	2812 Rs. TWO THOUSAN D EIGHT HUNDRED TWELVE ONLY
3	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	0.5, Minimum VAH: 400	NOS.	4375 Rs. FOUR THOUSAN D THREE HUNDRED SEVENTY-FIVE ONLY
4	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	0.65, Minimum VAH: 168	NOS.	2973 Rs. TWO THOUSAN

					D NINE HUNDRED SEVENTY- THREE ONLY
6	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 0.65,Minimum VAH: 108	NOS.	2544 Rs. TWO THOUSAN D FIVE HUNDRED FORTY- FOUR ONLY
7	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 0.8,Minimum VAH: 168	NOS.	3500 Rs. THREE THOUSAN D FIVE HUNDRED ONLY
9	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 0.8,Minimum VAH: 216	NOS.	4096 Rs. FOUR THOUSAN D NINETY- SIX ONLY
10	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 1.0,Minimum VAH: 168	NOS.	4173 Rs. FOUR THOUSAN D ONE HUNDRED SEVENTY- THREE ONLY
11	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 1.0,Minimum VAH: 400	NOS.	6341 Rs. SIX THOUSAN D THREE HUNDRED FORTY- ONE ONLY
12	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 1.0,Minimum VAH: 216	NOS.	4302 Rs. FOUR THOUSAN D THREE HUNDRED TWO ONLY
15	INTEX	Line Interactive UPS with AVR for single phase AC 160V to 280V input.	Rated KVA: 1.5,Minimum VAH: 600	NOS.	8868 Rs. EIGHT THOUSAN D EIGHT HUNDRED SIXTY- EIGHT

35	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 0.5,0.65 and 0.8,Distance Slabs/ Regions/ Destinations: 31-1000 Kms.	NOS.	ONLY 48 Rs. FORTY-EIGHT ONLY
36	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 0.5,0.65 and 0.8,Distance Slabs/ Regions/ Destinations: 1001-2000 Kms.	NOS.	52 Rs. FIFTY-TWO ONLY
37	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 0.5,0.65 and 0.8,Distance Slabs/ Regions/ Destinations: More than 2000 Kms.	NOS.	67 Rs. SIXTY-SEVEN ONLY
38	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 0.5,0.65 and 0.8,Distance Slabs/ Regions/ Destinations: NE Region and J & K State	NOS.	90 Rs. NINETY ONLY
40	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 1.0,1.5 and 2.0,Distance Slabs/ Regions/ Destinations: 31-1000 Kms.	NOS.	96 Rs. NINETY-SIX ONLY
41	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 1.0,1.5 and 2.0,Distance Slabs/ Regions/ Destinations: 1001-2000 Kms.	NOS.	125 Rs. ONE HUNDRED TWENTY-FIVE ONLY
42	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 1.0,1.5 and 2.0,Distance Slabs/ Regions/ Destinations: More than 2000 Kms.	NOS.	130 Rs. ONE HUNDRED THIRTY ONLY
43	INTEX	Freight Charges for Line Interactive UPS	Rating (KVA): 1.0,1.5 and 2.0,Distance Slabs/ Regions/ Destinations: NE Region and J & K State	NOS.	135 Rs. ONE HUNDRED THIRTY-FIVE ONLY

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- 6-Terms of Delivery: The prices are for free delivery within a radius of 30 Kms. Beyond 30 Kms, the extra freight charges per unit will be payable as per item no. 35, 36,37,38,40,41,42 & 43.
- 7-Excise Duty: Inclusive @8.24%
- 8-Sales Tax: CST/VAT Extra @4%
- 9-Delivery Period: 6 to 8 weeks from the date of receipt of order.
- 10-Annual Turnover/Monetary Limit: . . .
- 11-Payment Terms: As per Schedule B
- 12-Slab Discount Clause: Nil
- 13-Prices: FIXED
- 14-Quantity Offered: Monetary Limit: Without Limit
- 15-Minimum Quantity in Single Supply Order: Without Limit

SCHEDULE - B

RC Specification: 1. Line Interactive UPS System will conform to standard guarantee/warranty clause 18 of DGS&D-1001 effective for a period of 12 months from the date of receipt of stores by the consignee or 15 months from the date of dispatch whichever is earlier.

2 Octroi Duty and Local Taxes:

Normally materials to be supplied to Government 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 the buyers account in the absence of relevant exemption certificate.

3. PAYMENT TERMS:

Payment will be made to the contractor on submission of bills in accordance with the procedure laid down under clause 19 of DGS&D-69 as amended up to date. The broad provisions are reproduced as under: -

(i) 98% of the price of the stores of each consignment thereof shall be paid on production of a valid inspection note and on the basis of provisional receipt certificate issued by the consignee for having received the stores in full and good conditions, duly endorsed either on copy of I. Note issued for advance 98% payment or in the standard format given below:-

"This is a provisional receipt, it only be taken as the receipt of the stores by the consignee and is without prejudice to his right of inspection and rejection under the general conditions of contract. It is issued on `said to contain basis' the contractor remaining responsible for providing the total quantities actual delivered.

(ii) Balance 2% shall be paid on receipt of stores by the consignee in good condition.

4. Road permit, Waybill to be provided by DDO along with the order.

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/ Waybill 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 by them to DGS&D.

The details of the Road permits presently applicable in different States are as under:-

Sr.No. States Road Permit

- 1 Andhra Pradesh: -
- 2 Arunachal Pradesh: Form DG-01
- 3 Assam: Form 62
- 4 Bihar: Form 28
- 5 Chhattisgarh: Form 59A
- 6 Goa: -
- 7 Gujarat: Form 403
- 8 Haryana: Form 38 if value is Rs. 25,000 or more.
- 9 Himachal Pradesh: -
- 10 Jammu & Kashmir: -
- 11 Jharkhand: Form 28B
- 12 Karnataka: -
- 13 Kerala: -
- 14 Madhya Pradesh: Form 88/89
- 15 Maharashtra: -
- 16 Manipur: Form 27
- 17 Meghalaya: Form 14
- 18 Mizoram: Form 33
- 19 Nagaland : Form 16
- 20 Orissa: Form 28
- 21 Punjab: -
- 22 Rajasthan: Form 18
- 23 Sikkam: Form 20
- 24 Tamil Nadu: -
- 25 Tripura: Form 26
- 26 Uttar Pradesh: Form 32
- 27 Uttaranchal: Form 17
- 28 West Bengal: Form 50

SPECIAL INSTRUCTIONS - TO RC 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.

(Shashi K. Sud)

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 Line Interactive UPS**

Sr.No.	NAME & FULL ADDRESS OF FIRM	R/C NO & DATE
1	POWER ONE MICRO SYSTEMS PVT LTD GF-3/F12,KSSIDC BUILDING,5TH CROSS,1ST STAGE,PEENYA INDUSTRIAL ESTATE,BANGALORE -560058 BANGALORE KARNATAKA 560058	L.I.UPS/IT-4/RC- D3010000/0510/84/01172/1266 27-NOV-09
2	SNA AUTOMATION INC. B-80,SHIVALIK, NEAR MALVIYA NAGAR, NEW DELHI- 110017 Mr. Sanjiv Chandhoke: 09910156166 Mr. Vipin Sharma : 09891258825 DELHI 110017	L.I.UPS/IT-4/RC- D3010000/0510/84/04751/1309 24-DEC-09
3	BHAWANI DIGITAL SYSTEMS PVT LTD 38, Blue Rose Indl. Estate, Next to Jaya Petrol pump, Borivali(E),Mumbai - 400 Mumbai MAHARASHTRA 400066	L.I.UPS/IT-4/RC- D3010000/0510/84/01561/1312 24-DEC-09
4	UNILINE ENERGY SYSTEM P LTD Uniline House, 198/23 Ramesh Market East of Kailash, New Delhi DELHI 110065	L.I.UPS/IT-4/RC- D3010000/0510/84/01716/1317 24-DEC-09
5	AUTORONICA 403, INDUSTRIAL AREA, PHASE-2, PANCHKULA HARYANA 134113	L.I.UPS/IT-4/RC- D3010000/0510/84/N0028/1318 24-DEC-09
6	AGMATEL INDIA PVT LTD E-366, 2nd Floor, Nirman Vihar, Vikas Marg, Delhi 110092 Mr.Vijay Malhotra- 9810054741 Email: charanjeet@agmatel.com Ph:011-22462256 / 22456529 / 43064306 Fax:011-22019833 DELHI 110092	L.I.UPS/IT-4/RC- D3010000/0510/84/F0177/1319 24-DEC-09

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|----|--|---|
| 7 | <p>ELEGANT ELECTRONICS PVT. LTD.
 A 18 Wazirpur Group Industrial Area
 Delhi
 DELHI 110052</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/OA041/1330
 24-DEC-09</p> |
| 8 | <p>LUMINOUS POWER TECHNOLOGIES PVT.
 LTD.
 Luminous Power Technologies Pvt. C 8 & 9,
 Community Centre, Behind Janak Puri New Delhi-
 110058</p> <p>Mr. Pradeep Kailey: 09818838607 / 9818838607</p> <p>DELHI 110027</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/03319/1320
 24-DEC-09</p> |
| 9 | <p>AXIS POWERTRONICS PRIVATE LIMITED
 RH - 4/8, GURUDEV HOUSING SOCIETY,BAJAJ
 NAGAR(WALUJ)
 AURANGABAD
 MAHARASHTRA 431133</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/NA260/1310
 24-DEC-09</p> |
| 10 | <p>POWERNET SOLUTIONS PVT LTD
 1754,9th Cross,18TH Main,9TH Cross J.P.Nagar
 2nd Phase Bangalore -78.
 Bangalore
 KARNATAKA 560078</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/03915/1332
 24-DEC-09</p> |
| 11 | <p>RS POWER SYSTEMS
 A-42, Jai Ambey Nagar , Tonk Road, JAIPUR-</p> <p>Mob: 09414047079 / 09414310628
 Ph: 0141- 2396550 / 2396545
 Fax: 0141-2395860
 E-mail: rspower@rspower.net</p> <p>RAJASTHAN 302018</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/NA068/1316
 24-DEC-09</p> |
| 12 | <p>IGATECH INDUSTRIAL ELECTRONICS PVT
 LTD
 XII/230,Morarji Road, Vazhakkala,
 Kakkanad(W).P.O,Cochin
 cochin
 KERALA 682030</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/NA349/1333
 24-DEC-09</p> |
| 13 | <p>ONE UP SYSTEMS
 1st FLOOR PUSHPA COMPLEX
 KASAULI ROAD,
 SECTOR-2
 PARWANOO
 HIMACHAL PRADESH 17220</p> | <p>L.I.UPS/IT-4/RC-
 D3010000/0510/84/NA086/1313
 24-DEC-09</p> |

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|----|---|---|
| 14 | <p>AZ ELECTRONICS
A-402, Rizvi Palace, Hill Road, Bandra (W),
Mumbai</p> <p>Mr. B.K,Vaid: 09310221017 (Delhi)</p> <p>MAHARASHTRA 400050</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/03079/1311
24-DEC-09</p> |
| 15 | <p>P.P. POWER SOLUTION LTD.,
1961/3 aRYA SAMAJ ROAD NEAR HDFC BANK
NARELA
NEW DELHI
DELHI 110040</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/02524/1314
24-DEC-09</p> |
| 16 | <p>INTEX INDUSTRIES
Phase-I, SIDCO Industrial Complex, Bari Brahmna,
Jammu</p> <p>Mr. M.M.Gupta: 09971533533
Mr.Naveen Kumar: 09958393913</p> <p>JAMMU KASHMIR 181133</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/02922/1321
24-DEC-09</p> |
| 17 | <p>AARKEY INDUSTRIES
Pocket C Plot no 109 Sector -2 DSIDC Bawana
Industrial Area, Delhi- 110039
Mr. Virender Kumar Goel: 9868206531/
9211305377 / 09868466737
Fax No. 011-27679551
Tele No: 011-24510342 / 27682109</p> <p>DELHI 110039</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/OA226/1308
24-DEC-09</p> |
| 18 | <p>INTEGRATED POWER CONVERSION
C-2,IIIRD floor,A-108,Jawahar Park
Khanpur
DELHI 110062</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/04175/1329
24-DEC-09</p> |
| 19 | <p>HYKON POWER ELECTRONICS (P) LTD.,
KUTTANELLUR P.O.,
THRISSUR
KERALA 680014</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/01261/1322
24-DEC-09</p> |
| 20 | <p>EMMANUEL ELECTRONICS
121, CIEM Ind. Estate,Kanchpada, Malad
Mumbai
MAHARASHTRA 400064</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/NA255/1323
24-DEC-09</p> |
| 21 | <p>NATIONAL ENGINEERING WORKS
56, Foundry nagar Extension,</p> | <p>L.I.UPS/IT-4/RC-
D3010000/0510/84/NA386/1324</p> |

21	Agra UTTAR PRADESH 282006	L.I.UPS/IT-4/RC- D3010000/0510/84/NA386/1324 24-DEC-09
22	MILLENIUM ELECTRONICS Plot No.35E, Sector-2, Parwanoo (HP)- 173220 Mr. Akhtar Rais : 09350271060 HIMACHAL PRADESH 173220	L.I.UPS/IT-4/RC- D3010000/0510/84/04867/1331 24-DEC-09
23	SUPRA HI-TECH ELECTRO EQUIPMENTS PVT LIMITED 32/86 A & B Supra House, Pallissery Road Ernakulam KERALA 682032	L.I.UPS/IT-4/RC- D3010000/0510/84/01302/1326 24-DEC-09
24	VSM ENTERPRISES PVT. LTD. Gali No 21 Plot No 1381, Hari Singh Nalwa Street, Karol Bagh, Delhi- 110005 Ashwani Narang 9810161148 DELHI 110005	L.I.UPS/IT-4/RC- D3010000/0510/84/OA115/1328 24-DEC-09
25	TOTAL POWER CONDITIONERS PVT LTD No. 32,2nd main, Kamakshipalya Ind. Extn. Bangalore KARNATAKA 560079	L.I.UPS/IT-4/RC- D3010000/0510/84/NA645/1327 24-DEC-09
26	PREMIER ENTERPRISES, 44-B, POCKET - B, SIDHARTH EXTENSION, NEW DELHI Mr. Subhash Sharma: 9313983602 / 9810034802 DELHI 110014	L.I.UPS/IT-4/RC- D3010000/0510/84/03863/1315 24-DEC-09
27	AARGEE EQUIPMENTS PVT. LTD L8,ELECTRONICS INDUSTRIAL ESTATE HOSUR TAMIL NADU 635109	L.I.UPS/IT-4/RC- D3010000/0510/84/NA342/1325 24-DEC-09

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. Suppliers shall furnish complete & satisfactory type test certificate except Environmental test for each rating with highest VAH ,however,the Environment test certificates only for the highest rating with highest VAH to the Director (QA) concerned at the time of inspection of first lot. TTC shall be from Govt. laboratory. Suppliers, who have already got type test certificates for the existing ratings, would not be required to obtain fresh type test certificates for the same ratings. For CE or UL certified Line Interactive UPS, supplier shall be in possession of CE or UL certificate for each item
- B. The firm shall registered for the subject stores in the name of Line Interactive UPS. The type test report for the highest rating of the UPS will be acceptable only for the purpose of grant of registration.
- C. Specification for Line Interactive UPS with AVR for Computers and general purpose
1. General
 - (a) UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs, etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional.
 - (b) Enclosures shall conform to protection requirement of IP2L1 to IS13947 (Part 1)/1993 (reaffirmed 2004).
 - (c) Switching device shall be MOSFET or IGBT and the same shall be declared in the offer by the tenderers.
 - (d) Switching frequency shall be above 50 Hz and shall be declared in the offer.
 2. Switching over time from AC mains to UPS mode on power failure should be 10 milliseconds maximum.
 3. Input : 160 to 280V, 50 +/- 3 Hz Single Phase AC.
 4. Output :
 - (a) AVR output voltage in AC mode : 230 Volts +/- 9%, 50 +/- 3 Hz.
 - (b) UPS output voltage in battery mode : 230 Volts +/-10%, 50 +/-0.5 Hz.at Load power factor of not less than 0.6 lag.
 5. Total Harmonics distortion:
40% maximum to be measured in DC mode.
 6. Efficiency (at rated output voltage and frequency)
Inverter efficiency : Minimum 70%
 7. Regulation:
Total variation of voltage from no load to full load shall not exceed 10% and at no point the output voltage should go beyond the permissible band of 230 Volts +/-9%
 8. Overload :
UPS shall withstand 10% overload for at least 10 minutes in mains mode.
 9. Protections :
 - (a) Input voltage goes outside the range 160 to 280 Volts the system shall switch over to battery mode.

- (b) Over voltage , short circuit , and overload at UPS output terminals.
- (c) Protection against over discharge(The load shall be cut-off as soon as voltage of battery terminals falls below 10.5 V for 12 Volts and 21V for 24 Volts battery system.

10. Indicators and meters :

Following indicators shall be provided:

- (i) Mains mode.
- (ii) UPS mode
- (iii) Battery Low

11. Battery Bank :

- (a) The batteries shall be of 12 Volts Sealed Lead Acid Valve Regulated Type (VRLA) as per JISC:8707/1992 or to JISC:8702/1998 & the supplier shall submit compliance certificate to the governing specification from OEM to the concerned D(QA) at the time of inspection .
- (b) Suppliers shall declare battery AH Capacity, battery voltage, number of batteries of each rating, make and model of batteries offered with each item of UPS corresponding to the specified minimum VAH rating of battery bank.
- (c) In case the batteries are not housed inside UPS cabinet, suitable enclosure/rack to mount these batteries shall also be supplied along with the batteries.

12. Freight charges for despatch shall be per unit basis subject to the conditions

specified in terms & conditions of T/E for various distance slabs/regions/ destinations.

D. Testing requirement for UPS

1. Type tests :

Following shall constitute the type testing. And shall be carried out at least on one unit of each rating .

- (a) Visual examination
- (b) Verification of output power and frequency
- (c) verification of voltage regulation.
- (d) Verification of efficiency
- (e) Verification of total harmonics distortion.
- (f) Verification over voltage protection.
- (g) Test for insulation resistance, leakage current and high voltage as per IS: 616/2003(IEC 60065-2001)Insulation resistance should not be less than 100 mega ohms.
- (h) Test for minimum VAH capacity of the battery.
- (i) Capacity test (C20) and High Rate Discharge shall also be carried out at the time of first inspection for each rating , make and model of battery at the firm's premises.

2. Environmental tests:

Following environmental tests shall be carried out. During the last 1/2 an hour of each environmental test functional tests, as at SL.No. 1,2 and 3 above shall be carried out and result should be satisfactory. Further after each environmental test the functional performance mentioned at SL.No. (a) to (f) shall be checked after recovery period of 1 hour and test results shall be satisfactory.

- (a) Burn-in Test : At a temperature of 45 degree C for 48 hours with

- power on and at full load.
- (b) Dry Heat Test : At 45 degree C for 16 hrs in accordance with IS: 9000 (Part 3/Sec.5)/1997) (reaffirmed 2004) .
 - (c) Damp Heat Test : At 40 degree C, RH 95% for two cycles. in accordance with IS: 9000(Part5/sec.1) 1981 (reaffirmed 2004)
 - (d) Cold Test : At 0 degree C for 2 hrs. in accordance with IS: 9000 (part2/sec.4)1997 (Reaffirmed 2004)

3. Acceptance tests :

Tests listed at SL.No. (a) to (h) shall constitute acceptance test and shall be carried out on all the items offered for inspection. Capacity test for the battery shall also be carried out as an acceptance test against each lot.

Line Interactive UPS with AVR for single phase AC 160V to 280V input.

Specification :

Line Interactive UPS with AVR and PWM technology for computers suitable for single phase AC input voltage range 160V to 280V, 50 +/-3 Hz and single phase AC output voltage 230V +/-9%, 50+/-0.5 Hz in AC mode. It shall be housed in rugged enclosure made of M.S. sheet of 1 mm (minimum) thick aesthetically finished, duly pretreated and powder coated or ABS body.

Freight Charges for Line Interactive UPS

Specification :

As per detailed specification and General Technical Requirements.

LIST OF ALL AMENDMENTS

For RC No. L.I.UPS/IT-4/RC-D3010000/0510/84/02922/1321

NOTE: No Amendments issued till date 04-FEB-10