

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

Amendment No. (ON-LINEUPS/IT-4/RC-D3070000/0810/84/02528/1278/30085)
Dated: 19-APR -10
Effective Date: 15 - APR - 10

To,

M/S SAMTEK ELECTRONICS
Samtek electronics
F-256 pandav nagar
DELHI-91

DELHI
DELHI - 110091

Sub: This office R/C No. ON-LINEUPS/IT-4/RC-D3070000/0810/84/02528/1278
Dated: 15-DEC-09 for the supply of On –Line UPS for IT Applications.

Ref: You're Letter No. – Dated 09-APR -10

Dear Sir,

The following amendments to the schedule to subject rate contract in terms of rate are hereby authorized:-

UNDER SCHEDULE - A

1. Against Clause 12 i.e. Slab Discount Clause of schedule A of the RC.
After the existing entries, add the following discounts against item no 34 to 44 of the RC
- i. 2.5%discount on single order value upto Rs. 10 Lakhs
 - ii. 4.5 % discount on single order value from Rs. 10, 00, 001 to Rs. 50 Lakhs
 - iii. 5.5 % discount on single order value above Rs. 50 Lakhs

All other terms and conditions of the R/C shall remain unaltered.
Please Ack. receipt.

Yours Faithfully,



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

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Amendment No. (ON-LINEUPS/IT-4/RC-D3070000/0810/84/02528/1278/30085)
Dated: 19-APR -10
Effective Date: 15 - APR - 10

To,

M/S SAMTEK ELECTRONICS
Samtek electronics
F-256 pandav nagar
DELHI-91

DELHI

Sub: Rate Contract for supply of On-Line UPS for IT Applications
Validity: From 15-DEC-09 to 30-NOV-10.

Ref: (1) This Officer Tender Enquiry No. ON-LINEUPS/IT-4/RC-D3070000/0810/84 Opened on 07-JUL-09.
(2) Your Quotation No. on line-01/09-10 And Dated 26-JUN-09.

Dear Sir,

Your 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 terms and conditions brought in the from 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 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

Or and on behalf of purchaser named in the from DG&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.: -ON-LINEUPS/IT-4/RC-D3070000/0810/84/02528/1278

Dated 15-DEC-09 for the Supply of On-Line UPS for IT Applications

2. Advance Rate Contract No.: - Nil

Dated

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

SAMTEK ELECTRONICS
Samtek electronics
F-256 pandav nagar
DELHI-91

DELHI
DELHI - 110091
Tel. No. - 011 22758219
Fax - 011 22799091
[Email](mailto:samtekelectronics@hotmail.com) - samtekelectronics@hotmail.com

(b) Name and Full Address of Manufacturer: -

SAMTEK ELECTRONICS
C-22/10, Sector- 57, NOIDA, Gautam Budh Nagar
UP

(c) Brand: SAMTEK

4. Validity of Rate Contract: 15-DEC-09 To 30-NOV-10

5. Description of Item, Specification, Unit, Rate

Item Model No. No.	Store Description	Unit	Rate (in Rs.)
17 SAMTEK	On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 10 KVA, Indicative Back-Up time: NOS. 30 minutes	122995 Rs. ONE LAKHS TWENTY-TWO THOUSAN D NINE HUNDRED NINETY-FIVE ONLY
18 SAMTEK	On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 10 KVA, Indicative Back-Up time: NOS. 60 minutes	159234 Rs. ONE LAKHS FIFTY-NINE THOUSAN D TWO

Download Date: 16-DEC-09

			HUNDRED THIRTY-FOUR ONLY
19	SAMTEK On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 10 KVA, Indicative Back-Up time: NOS. 120 minutes	222607 Rs. TWO LAKHS TWENTY-TWO THOUSAN D SIX HUNDRED SEVEN ONLY
21	SAMTEK On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 15 KVA, Indicative Back-Up time: NOS. 30 minutes	170215 Rs. ONE LAKHS SEVENTY THOUSAN D TWO HUNDRED FIFTEEN ONLY
22	SAMTEK On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 15 KVA, Indicative Back-Up time: NOS. 60 minutes	208652 Rs. TWO LAKHS EIGHT THOUSAN D SIX HUNDRED FIFTY-TWO ONLY
23	SAMTEK On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 15 KVA, Indicative Back-Up time: NOS. 120 minutes	328483 Rs. THREE LAKHS TWENTY-EIGHT THOUSAN D FOUR HUNDRED EIGHTY-THREE ONLY
25	SAMTEK On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 20 KVA, Indicative Back-Up time: NOS. 30 minutes	188174 Rs. ONE LAKHS EIGHTY-EIGHT THOUSAN D ONE HUNDRED SEVENTY-

26	SAMTEK	On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 20 KVA, Indicative Back-Up time: NOS. 60 minutes		FOUR ONLY 285500 Rs. TWO LAKHS EIGHTY-FIVE THOUSAND FIVE HUNDRED ONLY
27	SAMTEK	On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type	Rating of UPS: 20 KVA, Indicative Back-Up time: NOS. 120 minutes		460010 Rs. FOUR LAKHS SIXTY THOUSAND TEN ONLY
33	samtek	Optional Items for On-Line UPS	Type: RS 232 Serial Port with Software for Computer Interface.	NOS.	440 Rs. FOUR HUNDRED FORTY ONLY
34	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 1.0KVA, Indicative Back-up time: 30 Minutes	NOS.	21140 Rs. TWENTY-ONE THOUSAND ONE HUNDRED FORTY ONLY
35	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 1.0KVA, Indicative Back-up time: 60Minutes	NOS.	25000 Rs. TWENTY-FIVE THOUSAND ONLY
36	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 1.0KVA, Indicative Back-up time: 120 Minutes	NOS.	34900 Rs. THIRTY-FOUR THOUSAND NINE HUNDRED ONLY
38	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 2.0 KVA, Indicative Back-up time: NOS. 30 Minutes		34500 Rs. THIRTY-FOUR THOUSAND FIVE

39	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 2.0 KVA, Indicative Back-up time: NOS. 60Minutes	Rating of UPS: 5.0 KVA,Indicative Back-up time: NOS.
40	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 2.0 KVA, Indicative Back-up time: NOS. 120 Minutes	
42	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 3.0 KVA, Indicative Back-up time: NOS. 30 Minutes	
43	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 3.0 KVA, Indicative Back-up time: NOS. 60Minutes	
44	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 3.0 KVA, Indicative Back-up time: NOS. 120 Minutes	
46	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 5.0 KVA, Indicative Back-up time: NOS. 30 Minutes	
47	SAMTEK	On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	Rating of UPS: 5.0 KVA, Indicative Back-up time: NOS. 60Minutes	
48	SAMTEK	On-Line UPS with	Rating of UPS: 5.0 KVA, Indicative Back-up time: NOS. 60Minutes	

HUNDRED
ONLY
43420
Rs. FORTY-
THREE
THOUSAN D
FOUR
HUNDRED
TWENTY

ONLY
59000
Rs. FIFTY- NINE
THOUSAN D
ONLY
42290
Rs. FORTY- TWO
THOUSAN D TWO

HUNDRED NINETY ONLY
56500
Rs. FIFTY- SIX THOUSAN D FIVE HUNDRED
ONLY
80380
Rs. EIGHTY THOUSAN D THREE HUNDRED
EIGHTY ONLY
65000
Rs. SIXTY- FIVE THOUSAN D ONLY

83000
Rs.
EIGHTY-
THREE
THOUSAN
D ONLY
125500

		isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type	120 Minutes		Rs. ONE LAKHS TWENTY-FIVE THOUSAND FIVE HUNDRED ONLY
63	SAMTEK	Freight Charges for On-Line UPS	Battery VAH: Upto 6400 VAH, Distance Slabs/ REgions/ Destinations: Port Blair and Lakshdweep	NOS.	100 Rs. ONE HUNDRED ONLY
70	SAMTEK	Freight Charges for On-Line UPS	Battery VAH: More than 6400 VAH and upto 12800 VAH, Distance Slabs/ REgions/ Destinations: Port Blair and Lakshdweep	NOS.	100 Rs. ONE HUNDRED ONLY
84	SAMTEK	Freight Charges for On-Line UPS	Battery VAH: More than 32000 VAH and upto 48000 VAH, Distance Slabs/ REgions/ Destinations: Port Blair and Lakshdweep	NOS.	100 Rs. ONE HUNDRED ONLY
91	samtek	Freight Charges for On-Line UPS	Battery VAH: More than 48000 VAH and upto 96000 VAH, Distance Slabs/ REgions/ Destinations: Port Blair and Lakshdweep	NOS.	100 Rs. ONE HUNDRED ONLY
98	SAMTEK	Freight Charges for On-Line UPS	Battery VAH: More than 96000 VAH, Distance Slabs/ REgions/ Destinations: Port Blair and Lakshdweep	NOS.	100 Rs. ONE HUNDRED ONLY

6-Terms of Delivery:	Free delivery at consignee's premises
7-Excise Duty:	Inclusive @8.24%
8-Sales Tax:	Inclusive of CST/VAT @4%
9-Delivery Period:	Within 10 to 15 weeks from the date of receipt of confirmed order.
10-Annual Turnover/Monetary Limit:	Without Limit
11-Payment Terms:	As per Schedule B
12-Slab Discount Clause:	Nil discount upto order value Rs. 50,000/- 1.5% discount from Rs. 50,001/- to Rs. 5, 00, 000/-. 2% discount from Rs. 5, 00, 001/- to Rs. 15, 00,000/-. 2.5% discount from Rs. 15, 00,001/- and above
13-Prices:	FIXED
14-Quantity Offered:	Not Applicable
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:	SSI
18-Paying Authority:	The Chief Controller of Accounts, Deptt. Of Supply

16A, AKBAR ROAD
New Delhi -110011

19-Inspection Authority:

For Civil and Defense
ADG (QA), Jeevan Tara Building, Parliament Street
New Delhi

20-Quality Assurance Officer:

For Civil and Defense
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:

C-22/10, Sector- 57, NOIDA, Gautam Budh Nagar, UP.

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. On Line 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 which ever is earlier.
2. R/C shall be governed by standard terms & conditions as contained in Form DGS&D-1001 which is procurable from DGS&D On payment of Rs. 50/-
3. Delivery shall be covered by the DGS&D standard Octroi duty / Local levies / Entry tax clause as under:

Octroi Duty / Entry Tax: Normally, materials to be supplied to government Deptt. Against government 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. Wherever required, Contractor should obtain the exemption certificate from the purchase officer or indenter concerned, to avoid payment of such local taxes of duties. In case Local town/Municipal body regulations do not provide for such exemptions the Octroi duty shall be payable at actual against documentary evidence of having paid such levies.

4. 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.

5. 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

6. You shall furnish complete and satisfactory Type Test Certificate (TTC) except Environmental test for each rating with highest VAH, however, the environment test certificate only for the highest rating with highest VAH of the respective schedule 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 rating, would not be required to obtain fresh type test certificate for the same rating.

7. Preparation of site along with cabling work of Input, Output Point and MCBs etc. shall be the responsibility of the Indentor/Consignee.

8. Mid term review of prices and specifications: There will be a mid term review of prices and specifications.

9. Battery for UPS shall be of the following makes:

Exide, Panasonic, Amar Raja, CSB, Global, Okaya, Rocket, Ritar, Base or DGS&D registered batteries or any other make duly Type Tested to JIS C 8702 from DGS&D approved lab.



(Shashi K. Sud)

Assistant Director (S)

For Director General of Supplies & Disposals

ANNEXURE

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 1998).
- c. By-pass facility shall be provided for maintenance of UPS.
- d. UPS shall supply output power and charging current at the same time.
- e. Switching device shall be MOSFET or IGBT and the same shall be confirm in the offer.
- f. Switching frequency shall be above 10 KHz and shall be declared in the offer.
- g. KW rating of the UPS shall be 0.70 times the KVA rating.

2. Input (as applicable)

- a. 160V-260V, 50 +/-3% Hz single phase AC or
- b. 300V-450V, 50 +/-3%Hz three phase AC

3. Output (as applicable)

- a. 230V +/-1% (with alternative setting for 220V +/-1%) 50 +/-0.5Hz, single phase.
- b. 400V +/-1% (with alternative setting for 380V +/-1%) 50 +/-0.5Hz three phase. Voltage regulation from no load to full load shall be within +/-1% in both The cases. UPS shall also have facility for operation in synchronous mode in Which output frequency shall be same as that of mains frequency.

4. Total harmonics distortion at output : 2% maximum for UPS up to 5KVA and 3% maximum for UPS above 5 KVA on resistive load. If total input harmonics are less than or equal to 10%.

5. Efficiency (at rated output voltage and frequency)

- a. Overall efficiency (minimum) : 90%

6. UPS power factor at rated load : better than 0.9 lagging.

7. Over load : UPS shall withstand 20% overload for 10 minutes and 50% over load for one minute.

8. Protections:

Following protection shall be provided in UPS:

- a. Over voltage, short circuit, and overload at UPS output terminal.
- b. Under voltage at battery terminal.
- c. Over shoot and under shoot shall not be greater than 4% of rated voltage for duration of 40m sec. (maximum)

9. Indicators and meters

- a. Following indicators shall be provided:-

- (i) Mains presence.
 - (ii) Battery charging and discharging
 - (iii) Output overload
 - (iv) Low battery voltage.
- b. Digital meter shall be provided for monitoring the following parameters in UPS(not applicable for rack mounting):
- (i) Input AC voltage.
 - (ii) Output AC Voltage, current and frequency
 - (iii) Battery voltage and current.
10. Battery bank:
- a. UPS shall be supplied with SMF VRLA battery only.
 - b. Tenderers shall declare battery AH capacity, battery voltage, number of Batteries of each rating make and model of batteries offered with each item of UPS.
 - c. Batteries for UPS shall be of the following makes:-
Exide, Panasonic, Amar Raja, Global, Rocket, Base, RITAR make & DGS&D Registered batteries or any other make duly type tested to JIS C 8702 from DGS&D approved lab.
 - d. The UPS shall be complete with Trolley for battery bank and the firms shall Also connect
The batteries with UPS and commission the same.
 - e. Minimum VAH rating of battery bank for different duration of back up time Shall be as detailed below:

UPS rating in KVA	Min.VAH 30 minute back up	Min. VAH 60 minute back up	Min VAH 120 minute back up	Min. VAH 240 minute back up
0.5 KVA	400	800	1600	3200
1 KVA	800	1600	3200	6400
2 KVA	1600	3200	6400	12800
3 KVA	2400	4800	9600	19200
5 KVA	4000	8000	16000	32000
6 KVA	4800	9600	19200	38400
7.5 KVA	6000	12000	24000	48000
10 KVA	8000	16000	32000	64000
15 KVA	12000	24000	48000	96000
20 KVA	16000	32000	64000	128000
30 KVA	24000	48000	96000	192000

16. Testing requirement for UPS:
- a. Type Tests: Following shall constitute type test and at least one sample shall be type tested for each rating with maximum backup time. Type testing shall be conducted either at an independent govt. lab or at the premises of the manufacturer in presence of an officer from concerned Directorate of Quality Assurance.
 - (i) Visual examination.
 - (ii) Verification of output power and frequency.
 - (iii) Verification of voltage regulation.
 - (iv) Verification of efficiency.
 - (v) Verification of total harmonics distortion.
 - (vi) Verification of overshoot, undershoot limits and over voltage protection.
 - (vii) Test for insulation resistance, leakage current high voltage as per IS: 616/86 (reaffirmed in 1991. Insulation resistance should not be Less than 100 mega ohms.
 - (viii) Verification of VAH as per Rate Contract.
 - (ix) Environmental tests: Following environmental tests shall be carried

out on the highest rating. Tests at SL. No. i to iii above shall be repeated during the last half an hour of each environmental condition.

Tests at Sl. No. i to vi shall be repeated after completing the environmental tests sequence of the three conditions and recovery period of 1 to 2 hours. There shall be no deterioration in any of these parameters when compared to the test results obtained before environmental tests

(A) Dry Heat Test : shall be carried out in accordance with IS: 9000 (part 3/sec.5)1977 (reaffirmed 2004) at 55 degree C for 16 hrs.

(B) Damp Heat: shall be carried out at upper Temperature of 40 degree C, two cycles of (12+12 hours) each in accordance with IS:9000 (part 5/sec.2)1981 (reaffirmed 2004).

(C) Cold Test: shall be carried out in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2004) at -10 degree C for 4 hrs.

b. Acceptance Tests : Tests listed at Sl. No. I to viii shall constitute acceptance

Test. Acceptance test shall be carried out on all the items offered for inspection.

On-Line UPS with isolation transformer suitable for Three Phase AC Input and Single Phase AC Output, Floor Mounted Type

Specification

On-Line UPS with isolation transformer & with PWM technology, floor mounted t type suitable for Three-phase AC input voltage 300V to 450V, 50 +/-1.5 Hz and single phase AC output voltage 230 +/-1%V, 50+/-0.5Hz. It shall be house in rugged enclosure made of M. S sheet 1.2 mm (minimum) thick, Aesthetically finished, duly pretreated and powder coated.

Optional Items for On-Line UPS

Specification

UPS shall be provided with serial communication port RS232 for voltage, current frequency, Charging status, mode of operation etc. On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type

Specification

On-Line UPS with isolation transformer & with PWM technology, floor mounted t type suitable for Three-phase AC input voltage 300V to 450V, 50 +/-1.5 Hz and single phase AC output voltage 230 +/-1%V, 50+/-0.5Hz. It shall be house in rugged enclosure made of M. S sheet 1.2 mm (minimum) thick, Aesthetically finished, duly pretreated and powder coated.

Freight charger for On-Line UPS

Specification:

Freight charges for the supply of On line UPS as per the distance slab



Download Date: 16-DEC-09

