

No. SPC/RCT/UPS/13/2005-2006/A-31216  
Directorate of Industries,  
New Administrative Building,  
Opp. Mantralaya, Mumbai - 400 032.  
Tel. No.:- (022) 2202 3477/3505  
Fax No.:- (022) 2202 6826  
Date: 5 DEC 2005

To,

**M/s. Pace Business Machines Pvt. Ltd.,**  
S-14, G-11, Camps Corner,  
Near Shahad Railway Station,  
Shahad (W) 421 103, Dist. Thane  
Tel. No. 95251-2320912 / 2320913 / 2212909 / 2300876 / 2301333  
Fax No. :- 95251-2212910  
Mobile No. 9820210766 / 9820053973 / 9821062163 / 9819234084  
Contact Person: Nitin / Vivek/ Rohit  
E-mail :- pbm@bom8.vsnl.net.in

**Sub:- Rate Contract for the UPS for the period from  
05-11-2005 to 30-06-2006**

Ref.:- This office T/E No SPC/RCT/UPS/13/2005-2006/

Dear Sir,

Your offer for Uninterrupted Power Supply (UPS) for the purpose of rate contract has been accepted. Detailed terms & conditions, specifications of stores to be supplied, their rates/duties etc. are incorporated in the schedule attached hereto.

- 2) You are requested to acknowledge the receipt of this rate contract within 7 days from the date of receipt of this letter. Non -receipt of your confirmation of this rate contract within 7 days will be deemed to be your acceptance of the said rate contract with all the terms & Conditions stipulated therein.
- 3) Any terms and conditions of your offer which are repugnant to or inconsistent with the terms and conditions of this rate contract shall be void and of no force and effect.
- 4) Receipt of your agreement in duplicate and security deposit in the form of Bank Guaranty for due performance of the rate contract is hereby acknowledged.

Yours faithfully,



**(S.V. Kamble)**

Officer on Special Duty (CSPO)  
for Development Commissioner (I) & CPO  
& on Behalf of the Governor of Maharashtra.



## SCHEDULE

No. & date of rate contract	No. SPC/RCT/UPS/13/2005-2006/A-31216
Name & Address of the firm	Dated:- 5 DEC 2005 <b>M/s. Pace Business Machines Pvt. Ltd.</b> S-14, G-11, Camps Corner, Near Shahad Railway Station, Shahad (W) 421 103, Dist. Thane
Store covered under the rate contract	Uninterrupted Power Supply (UPS)
Area	Whole of Maharashtra
Percentage of rate contract order	<b>Parallel</b>
Period of Rate Contract	<b>From 05-11-2005 to 30-06-2006</b>

### 1. 800 VA (Line Interactive) UPS

Sr. No.	Specifications	Required Specification	Rate Per Unit
1.	Make	APC	Rs. 3,700/ (Rs. Three Thousand Seven Hundred Only)
2.	Model	BR800IN	
3.	Capacity*	800 VA	
4.	Technology	Microprocessor based High Frequency switching.(PWM)	
5.	Input Voltage *	130VAC to 300VAC	
6.	Input Frequency	50Hz +/- 5%	
7.	Input protection	MCCB	
8.	Output voltage	230 Volts +/- 8%	
9.	Cold Start	Should be provided	
10.	Output voltage on Battery Mode *	230 Volts +/- 0.5%	
11.	Output Frequency On Battery Mode *	50 Hz +/- 0.5%	
12.	Output Waveform On Battery Mode *	Pure Sine Wave	
13.	Output Voltage Regulation On Mains Mode *	230 V AC - 15% to +10% within specified Input Range	
14.	Output Overload *	125% for 60 secs; 150% for 1 sec without change in output voltage regulation.	
15.	Transfer time (mains to battery)	2-4 ms	

*Rambal*

Sr. No.	Specifications	Required Specification	Rate Per Unit	
16.	Load Power Factor *	0.6 or better		
17.	Efficiency	>90%		
18.	Automatic Voltage Regulation	Should be provided		
19.	Crest factor	5:1		
20.	Protections	EMI / RFI Filters to be provided		
21.	Battery type	Sealed Maintenance Free		
22.	Battery Voltage, AH Capacity and No of Batteries	12V, 7AH, 2 Nos.		
23.	Typical battery life	3-5 years		
24.	Typical recharge time	5 Hrs for 90% charge level		
25.	Battery rating/backup time	60 min at typical load		
26.	Alarms (Audio & Visual)	Mains fail/On battery, Battery low(or Battery Fault), Overload, Trip Replace battery		
27.	Ambient Temperature	0 to 40 deg C		
28.	Relative Humidity	0 – 95 % non condensing		
29.	Audible Noise	<45 dB		
30.	Warranty	3 Years on UPS and 2 Years on Battery		
<b>Per Annam Rate for CMC</b>				<b>Rs. 300/- (Rs. Three Hundred Only)</b>
<b>Per Annam Rate for AMC</b>				<b>Rs. 200/- (Rs. Two Hundred Only)</b>

## 2. 1500 VA (Line Interactive) UPS

Sr. No.	Specifications	Required Specification	Rate Per Unit
1.	Make	APC	<b>Rs. 10,600/- (Rs. Ten Thousand Six Hundred Only)</b>
2.	Model	BR1500IN	
3.	Capacity*	1500 VA	
4.	Technology	Microprocessor based High Frequency switching.(PWM)	
5.	Input Voltage *	130VAC to 300V AC	
6.	Input Frequency	50Hz +/- 5%	

*Rambal*

Sr. No.	Specifications	Required Specification	Rate Per Unit	
7.	Output voltage on Battery Mode *	230 Volts +/- 0.5%		
8.	Output Frequency On Battery Mode *	50 Hz +/- 0.5%		
9.	Output Waveform On Battery Mode *	Pure Sine Wave		
10.	Output Voltage Regulation On Mains Mode *	230 V AC - 15% to +10% within specified Input Range		
11.	Output Overload *	125% for 60 secs; 150% for 1 sec without change in output voltage regulation.		
12.	Transfer time (mains to battery)	2-4 ms		
13.	Load Power Factor *	0.6 or better		
14.	Efficiency	>90%		
15.	Crest factor	5:1		
16.	Protections	EMI / RFI Filters to be provided		
17.	Battery type	Sealed Maintenance Free		
18.	Battery Voltage, AH Capacity and No of Batteries	12V, 9AH, 2Nos.		
19.	Typical battery life	3-5 years		
20.	Typical recharge time	5 Hrs for 90% charge level		
21.	Battery rating/backup time	60 min at typical load		
22.	Alarms (Audio & Visual)	Mains fail/On battery, Battery low(or Battery Fault), Overload, Trip Replace battery		
23.	Ambient Temperature	0 to 48 deg C		
24.	Relative Humidity	0 – 95 % non condensing		
25.	Audible Noise	<45 dB		
26.	Warranty	3 Years on UPS and 2 Years on Battery		
<b>Per Annam Rate for CMC</b>				<b>Rs. 900/- (Rs. Nine Hundred Only)</b>
<b>Per Annam Rate for AMC</b>				<b>Rs. 900/- (Rs. Nine Hundred Only)</b>

*Rambal*

### 3. 2KVA On Line UPS System

Sr. No	Item	Required Specification	Rate Per Unit
1.	Make	APC	Rs. 31,380/- (Rs. Thirty One Thousand Three Hundred Eighty Only)
2.	Model	SURT 2000 UXI	
3.	Capacity *	2KVA	
4.	Model Name & No	SURT 2000 UXI	
5.	Technology *	PWM Technology using fully digitized microprocessor controlled	
6.	Inverter Technology *	True online Double Conversion Must use IGBT	
7.	Crest Factor *	Minimum 3:1 at full load	
8.	Output Wave Form *	Pure Sine wave	
9.	Cold Start feature (DC Power on)	Should be provided	
10.	Active Input PF Correction *	Must be Provided (should be more than 0.95)	
11.	Input	Single Phase 3 wire for 1 to 5 KVA	
12.	Input voltage Range *	130VAC – 300VAC at Typical Load (50% Capacity)	
13.	Input Frequency Range *	50 ± 3Hz	
14.	Input power at full load (At minimum rated power factor) *	1900 Watts	
15.	Output voltage *	230VAC, Single Phase ± 1% at full load & Online output voltage select.	
16.	Output Frequency *	50Hz ± 0.5% (Free running)	
17.	Inverter Efficiency: *	> 90%	
18.	Overall Efficiency	> 85% or better	
19.	Static switch (Bi-directional) *	Should be provided and should take care of 100% load transfer	
20.	Load power factor *	Should be at least 0.7 lagging. (Should take at least 4 PCs per KVA)	
21.	Overload capacity *	125% overload for 1 minute, 150% overload for 10 Secs.	

*Rambali*

Sr. No	Item	Required Specification	Rate Per Unit
22.	UPS shutdown *	UPS should shut down with a alarm and indication following condition 1) Output over voltage, 2) Output under voltage, 3) Battery low, 4) Inverter over load, 5) Over temperature, 6) Output short.	
23.	Isolation *	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	
24.	Protection	Surge Protection, Battery replacement warning	
	Short Circuit protection	MCB/ MCCB should trip or UPS Should shutdown without blowing any fuses.	
	Input over & under voltage	UPS should be absolutely safe in the case of High voltage at Input	
	Output over & under voltage	Should be provided	
25.	Total Harmonic Distortion *	< 3% for 100% Linear Load < 5% for 100% non Linear load	
26.	Indicators	AC mains, Load on battery, Input over/ under voltage, Battery low warning, Inverter On, UPS on bypass.	
27.	Metering (Through Software for 1 to 3 KVA)	Input Voltage, Output Voltage Load%, battery voltage, battery balance%, bypass voltage provide additionally (LCD Display preferable)	
28.	Battery backup	1 Hour	
29.	Battery remain time display	To be provided	

*Rambal*

Sr. No	Item	Required Specification	Rate Per Unit
30.	Batteries	Sealed Maintenance Free	
31.	Total DC bus voltage	48V	
32.	Maximum charge current	2AMPS	
33.	Battery recharge time (after complete discharge) to 100%	Not to exceed 12 hrs Automatic battery charge in UPS off Mode	
34.	Battery AH rating	AH	
35.	Number of batteries	4	
36.	Battery housing	Closed housing in a cubicle with suitable louvers Hot swappable battery	
37.	Battery life	3-6 Years	
38.	Make of Battery	Exide / Panasonic / Global Yuasa/ Quanta / U Plus/ Amarraja/ Long / CSB / Vision	
39.	Audible alarm for the following conditions	Battery low, Mains failure, Input over/ under voltage, Inverter Under voltage, Inverter over voltage, Over temperature, Inverter over load	
40.	Communications Port and UPS Monitoring Software	In Built RS 232 Port with monitoring and shutdown software and advance battery management.	
41.	Automatic diagnostic & battery check	To be provided	
42.	Schedule Shut down & Reboot	To be provided	
43.	Network surge protection	To be provided	
44.	History record of power failure events	To be provided	

*Rambal*

Sr. No	Item	Required Specification	Rate Per Unit	
45.	Provision for extended backup time with battery pack	To be provided		
46.	Emergency Power off function	To be provided		
47.	Manual bypass setting	To be provided		
48.	Free run mode setting	To be provided		
49.	EMI/ RFI Noise Filter	To be provided		
50.	Cabinet	Rack/Tower Convertible for installations within the rack		
51.	Remote Monitoring	Optional, should be available through SNMP Adapter		
52.	Noise level	Less than 55db		
53.	Operating temperature	0-45 degrees centigrade		
54.	Humidity	10-90% non-condensing		
55.	Warranty	3 Years on UPS and 2 Years on Battery		
<b>Per Annam Rate for CMC</b>				<b>Rs. 2,500/- (Rs. Two Thousand Five Hundred Only)</b>
<b>Per Annam Rate for AMC</b>				<b>Rs. 2,000/- (Rs. Two Thousand Only)</b>

#### 4. 5KVA On Line UPS System

Sr. No	Item	Required Specification	Rate Per Unit
1.	Make	APC	<b>Rs. 73,000/- (Rs. Seventy Three Thousand Only)</b>
2.	Model	SURT 5000 UXI	
3.	Capacity *	5KVA	

*Rambal*

Sr. No	Item	Required Specification	Rate Per Unit
4.	Model Name & No	<b>SURT 5000 UXI</b>	
5.	Technology *	PWM Technology using fully digitized microprocessor controlled	
6.	Inverter Technology *	True online Double Conversion Must use IGBT	
7.	Crest Factor *	Minimum 3:1 at full load	
8.	Output Wave Form *	Pure Sine wave	
9.	Cold Start feature (DC Power on)	Should be provided	
10.	Active Input PF Correction *	Must be Provided (should be more than 0.95)	
11.	Input	Single Phase 3 wire for 1 to 5 KVA	
12.	Input voltage Range *	130VAC – 300VAC at Typical Load (50% Capacity)	
13.	Input Frequency Range *	50 ± 3Hz	
14.	Input power at full load (At minimum rated power factor) *	4750 Watts	
15.	Output voltage *	230VAC, Single Phase ± 1% at full load & Online output voltage select.	
16.	Output Frequency *	50Hz ± 0.5% (Free running)	
17.	Inverter Efficiency: *	> 90%	
18.	Overall Efficiency	> 85% or better	
19.	Static switch (Bi-directional) *	Should be provided and should take care of 100% load transfer	
20.	Load power factor *	Should be at least 0.7 lagging. (Should take at least 4 PCs per KVA)	
21.	Overload capacity *	125% overload for 1 minutes, 150% overload for 10 Secs.	

*Rambali*

Sr. No	Item	Required Specification	Rate Per Unit
22.	UPS shutdown *	UPS should shut down with a alarm and indication following condition 1) Output over voltage, 2) Output under voltage, 3) Battery low, 4) Inverter over load, 5) Over temperature, 6) Output short.	
23.	Isolation *	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	
24.	Protection	Surge Protection, Battery replacement warning	
	Short Circuit protection	MCB/ MCCB should trip or UPS Should shutdown without blowing any fuses.	
	Input over & under voltage	UPS should be absolutely safe in the case of High voltage at Input	
	Output over & under voltage	Should be provided	
25.	Total Harmonic Distortion *	< 3% for 100% Linear Load < 5% for 100% non Linear load	
26.	Indicators	AC mains, Load on battery, Input over/ under voltage, Battery low warning, Inverter On, UPS on bypass.	
27.	Metering (Through Software for 1 to 3 KVA)	Input Voltage, Output Voltage Load%, battery voltage, battery balance%, bypass voltage provide additionally (LCD Display preferable)	
28.	Battery backup	1 Hour	
29.	Battery remain time display	To be provided	

*Rambali*

Sr. No	Item	Required Specification	Rate Per Unit
30.	Batteries	Sealed Maintenance Free	
31.	Total DC bus voltage	192 V	
32.	Maximum charge current	2 AMPS	
33.	Battery recharge time (after complete discharge) to 100%	Not to exceed 12 hrs Automatic battery charge in UPS off Mode	
34.	Battery AH rating	26 AH	
35.	Number of batteries	16	
36.	Battery housing	Closed housing in a cubicle with suitable louvers Hot swappable battery	
37.	Battery life	3-6 Years	
38.	Make of Battery	Exide / Panasonic / Global Yuasa / Quanta / U Plus/ Amarraja / Long/ CSB / Vision	
39.	Audible alarm for the following conditions	Battery low, Mains failure, Input over/ under voltage, Inverter Under voltage, Inverter over voltage, Over temperature, Inverter over load	
40.	Communications Port and UPS Monitoring Software	In Built RS 232 Port with monitoring and shutdown software and advance battery management.	
41.	Automatic diagnostic & battery check	To be provided	
42.	Schedule Shut down & Reboot	To be provided	
43.	Network surge protection	To be provided	
44.	History record of power failure events	To be provided	

*Rambal*

Sr. No	Item	Required Specification	Rate Per Unit
45.	Provision for extended backup time with battery pack	To be provided	
46.	Emergency Power off function	To be provided	
47.	Manual bypass setting	To be provided	
48.	Free run mode setting	To be provided	
49.	EMI/ RFI Noise Filter	To be provided	
50.	Cabinet	Rack/Tower Convertible for installations within the rack	
51.	Remote Monitoring	Optional, should be available through SNMP Adapter	
52.	Noise level	Less than 55db	
53.	Operating temperature	0-45 degrees centigrade	
54.	Humidity	10-90% non-condensing	
55.	Warranty	3 Years on UPS and 2 Years on Battery	
<b>Per Annam Rate for CMC</b>			<b>Rs. 5,000/- (Rs. Five Thousand Only)</b>
<b>Per Annam Rate for AMC</b>			<b>Rs. 4,000/- (Rs. Four Thousand Only)</b>

- I. The UPS that is reported to be down should be fully repaired within 48 Hrs. public holidays as declared by the Govt. of Maharashtra are excluded for above down time calculation. The reporting will be through available mode as the purchaser/indenter may decided. In case of Suppliers/Vendor fails to meet the down time for maintenance, there will be penalty of Rs. 50/- (Rupees Fifty Only) per day.
- II. Is the responsibility of consignee/Indenter to maintain records regarding break downs, maintenance call etc, so as to calculate and deduct the penalty amount from the maintenance charges to be paid to the supplier.

*Rambal*

1. Rates: - F. D. Destination in Maharashtra
2. VAT: - Value Added Tax Inclusive
3. Octroi:- Octroi Nil against Octroi Exemption Certificate. If Octroi Exemption Certificate can not be given the Octroi Charges will be born by the Consignee.
4. Excise Duty: - Inclusive
5. Packing: - Inclusive
6. Force Majeure clause is not applicable.
7. Delivery Period: Delivery, Installation and Commissioning Period:- Within Six weeks from the date of receipt of confirmed Order. Delivery period will be counted from the date of purchase order complete with octroi exemption certificate/concessional form etc
8. Payment: - 90% payment within 2 weeks from the date of receipt of stores with inspection/test report and balance 10% within 30 days from the date of receipt of all stores in satisfactory condition as ordered.  
TDS should not be deducted by the Consignee.
9. Warranty: - One year Comprehensive Warranty from the date of installation. During the warranty period it will be the responsibility of rate contract holder to keep the machine in smooth working condition.
10. This rate contract is meant for whole of Govt. of Maharashtra.
11. Risk purchase:- In case the Vendor fails to deliver the quantity as stipulated in the delivery schedule, the Purchaser and/or Indentor reserves the right to procure the same or similar materials from alternate sources at the risk, cost and responsibility of the successful Vendor.
12. Fall Clause:- It is a condition of this contract that all through the currency thereof, the price at which the contractor will supply the stores should not exceed the lowest price charged by the contractor to any customer during the currency of the rate contract and that in the event of the prices going down below the rate contract prices, to contractor shall promptly furnish such information to the Director of Industries & C.P.O. Mumbai to enable to amend the contract rate for subsequent supplies.
13. Liquidated Damages for delayed supply:  
If the vendor fails to deliver any or all of the product or does not perform the Services within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.5 percent of the price of the undelivered stores at the stipulated rate for each week or part there of during which the delivery of such stores may be delayed subject to a maximum limit of 5 percent of the stipulated price of the stores so undelivered. Such penalty is to be deducted always by the Indentor /

*Mumbai*

Purchaser from the bill of the firm OR to purchase elsewhere on the account and risk of Vendor.

Once the maximum of the damages above is reached, the Indentor / Purchaser may consider termination of the Contract.

14. All General Terms and Conditions will also be applicable.
15. Rate contract holder should submit monthly statement of orders received and executed to this office by 10<sup>th</sup> of every month without fail. The Indenting Officers of Govt. Department shall place orders with the firms and should send copies thereof to this office.
16. Consignees should intimate complaints if any within six months from the date of receipt of stores.
17. No price escalation will be allowed.



**(S. V. Kamble)**

Officer on Special Duty  
for Development commissioner (Inds) & C.P.O.  
and on behalf of Governor of Maharashtra