

THE GEM & JEWELLERY EXPORT PROMOTION COUNCIL
3rd FLOOR, RAJASTHAN CHAMBER BHAWAN
M.I. ROAD, JAIPUR 302003

Tender No. TIES/2018-19/01: ANNEXURE 5

TECHNICAL SPECIFICATIONS FOR 20 KVA ONLINE UPS SYSTEM

Key features: 20KVA Online – Minimum Back up time 120 minutes. Following are the desired minimum specifications.

Feature / Item	Specification	Compliance (Yes / No)	Quoted item with part no. (If any). Please mark the item in submitted brochure.	Deviation (if any) with consequences on performance
1. 20 KVA Online Ups (Type)	Floor Model With Inbuilt Isolation Transformer			
2. UPS Capacity In KVA	20 KVA			
3. UPS Capacity In KW	18 KW			
4. Rectifier Technology (Power Device)	IGBT			
5. Design	DSP controller based design			
6. Inbuilt Isolation Transformer At I/P Side	To be provided			
7. I/P Power Factor	0.99 to Unity (1/p:230 v, full RCD load)			
8. I/P Phase	Three-phase with ground			
9. I/P Voltage Range	190-470 VAC (based on load %)			
10. I/P Frequency	45-55 Hz			

11. THDi At I/P	< 5% at full load			
12. Parallel Option	To be Provided in UPS			
13. Operating Temperature	0 to 45 degree			
14. Display & Indication	LCD display			
15. Status Led	Normal mode/ load on battery/ load on bypass/ system fault			
16. Audible Alarm	Mains failure alarm, low battery alarm, ups warning, overload, fault & bypass mode			
17. SNMP CARD (For Web Monitoring)	To be Provided			
18. O/P Voltage	230/240 v			
19. O/P Frequency	50 hz +/- 0.1hz			
20. Harmonic Distortion at O/P	A. Less than Equal to 2% on Linear load B. Less than equal to 5% on Non-linear load			
21. O/P Power Factor	0.9			
22. Efficiency	95% or better			
23. Over Loading	150% for 10 sec, 130% for 1 min			
24. Output Wave Form	Pure sinewave			
25. Crest Factor	3:1			

26. Noise Level	< 55db at 1 meter			
27. Cold Start	Should be available			
28. Minimum VAH Required For Batteries Backup	43000 VAH ~ 120 minutes back up time			
29. SMF Batteries Brand	Quanta /Exide /Panasonic			
30. Battery Housing	Powder Coated MS Racks			
31. Warranty It will be the responsibility of the vendor to keep the supplied instrument in optimized operating condition for next 5 years from the date of acceptance of installation and demonstration of claimed specifications	31.1. Five years comprehensive warranty to be offered inclusive of all required instrument parts, accessories and consumables (including replacement batteries)			
	31.2. The warranty will be applicable on all items (without any exception) supplied by the vendor.			
	31.3. A list of all consumables, spares, or accessories, with no exception, required during 5 years comprehensive warranty to be furnished.			
	31.4. A detailed scope of 5-years comprehensive warranty to be furnished with the bid.			
	31.5. The required spares may be supplied with the system, except the items which have specific shelf-life. Such items should be supplied and installed as per the requirement during the course of 5-years warranty.			
32. AMC / CMC	32.1. On completion of 5 years of comprehensive warranty, AMC and CMC			

	charges to be quoted separately for next five years (to be payable every year)			
	32.2. Detailed scope of AMC and CMC to be furnished with the bid			
33. Miscellaneous	All cables, switches, controls, etc from Mains to the UPS system, or any other accessory (without exception) required for installation of the UPS system shall be provided by the vendor			

Note:

1. Technical evaluation will be based on submitted compliance statement along with the supporting document for each parameter.
2. Attach supporting documents such as brochures, declaration, etc with the claimed specifications. The quoted items must be marked with consecutive item nos. as per the technical-cum-compliance statement.
3. The Gem & Jewellery Export Promotion Council reserves the right to relax any of the above mentioned specifications in overall evaluation, without giving any reason whatsoever.