

### Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 17:00:00
Bid Opening Date/Time	20-07-2020 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Manipur
Department Name	Information Technology Department Manipur
Organisation Name	Manipur State Information Technology Society (msits)
Office Name	New Secretariat, Imphal
Total Quantity	4
Item Category	Online UPS Modular Type ( <b>PAC Only</b> )
Bidder Turnover (Last 3 Years)	1 Lakh (s)
OEM Average Turnover (Last 3 Years)	1 Lakh (s)
Experience Criteria	1 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance	10 %
Bid to RA enabled	No
Inspection Required	No

#### EMD Detail

Required	No
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#### ePBG Detail

Required	No
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## Splitting

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

2. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

3. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% of bid quantity, in at least one of the last three years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

## Online UPS Modular Type ( 4 pieces ) ( Under PAC )

Make	numeric
Model	trimodhe

## Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERIC	Online UPS Modular type should support for Data Centres, Network operating centres, Security operation centres, State and District centres, Command and Control centre etc., across the Country to provide impetus to the e-	Yes	*

Governnance services e.g.Public food distribution, e Way bill, Counseling, e-Office, IVFRT etc., services under Digital India Programme		
Modular type UPS equipped with microprocessor/Digital signal processor and power modules, Power expansion facility, LCD/Digital display upto maximum expandable capcity, Cable entry, RS 232 port and SNMP port with each power module and with suitabale rack (compatible maximum expandable) with complete lockable door having visibility for maximum expandable capacity	Yes	*
<b>Output power capacity including re dudancy/Expandable (Rack facility) upto/Minimum backuptime (including redudancy) /Minimum VAH (VAH shall be calculate Battery voltage x Battery Ah x No. of batteries = Total VAH)</b>	8KVA/16KVA/6 minutes/2160 VAH	8KVA/16KVA/6 minutes/2160 VAH
VAH tolerance	-1% of the defined capacity	*
Hot swappable power module	Yes	*
Battery module using two or more strings in parallel for redudant supply and battery module shall be fuse protected	Yes	*
Inverter Technology	PWM with IGBT, double conversion	*

	Output wave form	Pure sine wave	*
	Country of origin for Inverter	India	*
	<b>Noise level</b>	</= 55 dB	</= 55 dB
	Type of cool (Minumum 2 Fans for each power module)	Air cooled	*
	Parallel (Power Modules) load sharing redundant operation with all accessories	Yes	*
	Installation and commissioning	Yes	*
	UPS shall be supply with insallation and operation manual	Yes	*
INPUT	Input	AC Three Phase	*
	<b>In put Voltage Range</b>	340 V to AC to 470 V AC 3 Phase	340 V to AC to 470 V AC 3 Phase
	<b>Input frequency range</b>	50 +/-6% Hz	50 +/-6% Hz
	Input power factor at full output load leading to unity with active power factor correction (APFC) (from 25% load to 100% load)	>/=0.99	*
	<b>Distortion (current)</b>	< / = 3%	< / = 3%
	UPS shall have DG set compatibility	Yes	*
OUTPUT	Output	AC Three Phase	*
	Out put voltage	380/400/415, 3 phase, 4 wire	*
	Voltage regulation (Steady state) at No load to full load, 0.6 lag to Unity PF, During entire back up time, Complete input voltage range	+/-1%	*
	<b>Output powr factor</b>	>/=0.99	>/=0.99
	Frequency	50 Hz +/-0.5 % Hz	*
CONSTRUCTION	<b>Minimum thickness (in mm) of Rack Enclosure for Modular UPS duly powder coated</b>	1.2	1.2

UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burst, etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional	Yes	*
<b>UPS enclosure's degree of protection as per IS:13947 (Part 1)/1993 latest</b>	IP21	IP21
Standard quality Output terminals shall be provided for output connection	Yes	*
UPS shall have static and manual bypass facility	Yes	*
UPS shall be supplied with required rated power cable (Copper)	5 Meters	*
<b>Total Harmonic Distortion (THD) for 100% linear load</b>	< 3%	< 3%
<b>Total Harmonic Distortion (THD) for 100% non-linear load</b>	< 5%	< 5%
Operating temperature	0 deg C to +40 deg C	*
Humidity	Upto 95% non-condensing	*
Operational: 1000 meters above sea level at 40 deg. C maximum	Yes	*
Crest factor on full non-linear load	Not less than 3:1	*
<b>Over all efficiency on rated full load of 0.8 PF (min.) AC output</b>	>=90%	>=90%
<b>Inverter efficiency on rated full load of 0.8 PF (min.) AC output</b>	>=95%	>=95%
<b>UPS shall withstand Over load capacity - 125% (Output with mains AC-AC)</b>	for 5 Minutes (Minimum)	for 5 Minutes (Minimum)

	UPS shall withstand Over load capacity - 150% (Output with mains AC-AC)	for 60 seconds (Minimum)	*
	<b>UPS shall withstand Over load capacity - 125% (Output in battery run DC-AC)</b>	for 30 Seconds (Minimum)	for 30 Seconds (Minimum)
	UPS shall withstand Over load capacity - 150% (Output in battery run DC-AC)	for 30 seconds (Minimum)	*
	Load power factor 0.8 lagging to unity	Yes	*
	Transient response time (for 100% load change, output must remain within +/-1% and recovery)	<20 milli seconds	*
PROTECTION	Short circuit protection	Yes	*
	Over load protection	Yes	*
	Over temperature protection	Yes	*
	In put low/high voltage control	Yes	*
	DC low/high voltage trip	Yes	*
	Back feed protection for both, mains and bypass input	Yes	*
BATTERY	Battery shall conforming to JISC:8702(Pt.I,II&III) latest or equivalent BIS standard	Yes	*
	<b>Battery type</b>	SMF VRLA	SMF VRLA
	Country of origin for Battery	India	*
	<b>Battery recharge time (after complete discharge to 90% charge) and charge rating: Battery recharge time to 90% charge after 100% DoD</b>	8 to 10 hours	8 to 10 hours
	Battery charger (One in each power module) should be capable to	Yes	*

	charge battery on C10 rating		
	Battery cutoff voltage during back up	Not less than 10.5 V	*
	<b>Batteries shall supply with</b>	With metal rack	With metal rack
	Modular UPS shall supply with DC Cable from UPS to battery and batteries to UPS , Battery interlink cables, battery breaker	Yes	*
Meters, Indicators and Display	All the meters and display LCD/Digital type shall support for maximum expanadable capacity	Yes	*
	Input: Voltage line to line and line to neutral, currents, frequency, power factor display	Yes	*
	Bypass: Phase voltage, line to line voltge, frequency display	Yes	*
	UPS Output: Phase voltage, phase currents, line-line voltage, power factors, frequency display	Yes	*
	Local load: Load of each phase (% age of total load), Active power (KW), Apparent power (KVA), and Ractive power (KVAR) of each phase, load crest factor display	Yes	*
	Battery: Battery bus voltage, battery charge and discharge current, forecasted battery back up time, battery capacity (Ah)	Yes	*
	Parrallel load (for parallel operation system): Apparent power (KVA) of each phase, Active power (KW) of each phase, reactive power (KVAR) of each phase	Yes	*

	UPS shall have an indication for Mains on, Load on battery, Inverter, Battery level, Load level, Inverter over load	Yes	*
	UPS shall have audible alarm for over temperature, mains failure, battery low, inverter overload	Yes	*
	Communication interface: SNMP/MODBUS/HTTP/JAVA/UPSMON/SMTP etc., and 2 serial port USB/ RS232, RS485, 1 logic level port, 4 Dry contacts ports	Yes	*
	Log History storage facility with display (minium 200 events)	Yes	*
WARRANTY AND SERVICES	<b>Warranty for Modular UPS (on site comprehensive warranty) (in years)</b>	3	3
	<b>Warranty for battery (replacement warranty) (in years)</b>	2	2
	<b>After sales and complaint service</b>	within 48 hours	within 48 hours
	<b>PAN India service support on 24 x 7 basis</b>	Yes	Yes
	<b>AMC support available after 3 year warranty</b>	Yes	Yes
	<b>Quarterly preventive maintenance</b>	Yes	Yes
	<b>Manufacturer shall provide and support for installation, commissioning, spares, technical support all over India</b>	Yes	Yes
	<b>Availability of spares in close proximity (Spares should be easily available close to the site)</b>	Yes	Yes



CERTIFICATIONS	ISO: 9001 Certification	Yes	*
	ISO: 14001 Certification	Yes	*
	Environmental compliance certificate RoHS	Yes	*
	<b>CE Certification and marking</b>	Yes	Yes
	UPS shall meet and comply with the General and safety requirements as per IEC:62040-1	Yes	*
	UPS shall meet and comply with the Electromagnetic compatibility (EMC) requirements as per IEC:62040-2	Yes	*
	<b>Damp Heat Test : in accordance with IS:9000(part 5/sec.2)1981 at Temperature of 40 degree C,two cycles of (12+12) hours each 2007)</b>	No	No
	<b>Dry Heat Test : in accordance with IS:9000 (part 3/sec.5)1977 (reaffirmed 2007) at 55 degree C for 16 hrs</b>	No	No
	<b>Cold Test : in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degree C for 4 hrs.</b>	No	No
	Availability of the Type Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.	Yes	*
	All the test reports and certificates shall furnish by the supplier to the buyer/consignee on demand	Yes	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

### **Additional Specification Documents**

#### **Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Thiyam Geetarani Devi	795001,4th floor, New Secretariat, Western Block, Imphal West	4	45

### **Bid Specific Additional Terms and Conditions**

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
2. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.
4. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
5. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
6. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
7. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
8. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount

from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to reimburse the cost of such service / rectification to the Buyer.

9. Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 1 year before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
10. **Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
11. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**