



OFFICE OF THE MISSION DIRECTOR  
National Health Mission, Assam  
Saikia Commercial Complex, Srinagar Path, Christian Basti,  
G S Road, Guwahati-781005, Assam

Website: [www.nrhmassam.in](http://www.nrhmassam.in)

e-mail: [misnrhm.assam@gmail.com](mailto:misnrhm.assam@gmail.com)

TENDER NO: NHM/PROC/UPS-SCVS/2896/2016-17/5159

Date: 6/07/2016

**CORRIGENDUM NO.1**

**TENDER FOR FINALIZING RATE CONTRACT FOR SUPPLY OF SERVO CONTROLLED VOLTAGE STABILIZER AND ON-LINE UPS**

This has reference to Tender no: NHM/PROC/UPS-SCVS/2896/2016-17/3144 Date: 15/6/2016 for entering into rate contract for supply of Servo Controlled Voltage Stabilizer and On-line UPS. The following amendment may be taken note of prior to submission of Bids:

**1. Clause 20, Point A of the tender is amended to read as follows:**

**LOGOGRAMS**

A. Tenders for the supply of the items shall be considered only if the Bidder gives undertaking in his tender that the items will be supplied with the logogram either printed or embossed or affixed or stickered as specified.

**2. Annexure –I “Technical Cum Compliance specification sheet” is amended to read as follows:**

**ANNEXURE-I (Rev-I)**

**1. 5 KVA UPS with 60 mins backup - Qnty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
1 Description			
1.1	5 KVA On-Line UPS System with inbuilt Isolation Transformer.		
2 Technology			
2.1	DSP (Digital Signal Processing) Technology using IGBT rectifier and IGBT inverter		
3 Technical Specifications			
3.1	<b><u>INPUT PARAMETERS</u></b> <ul style="list-style-type: none"><li>Input Phase:- Single</li><li>Input Voltage: 160V – 280V</li></ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>• Input Power Factor:- 0.99</li> <li>• Input Frequency:- 45Hz – 55Hz</li> </ul> <p><b><u>OUTPUT PARAMETERS</u></b></p> <ul style="list-style-type: none"> <li>• Output Phase:- Single</li> <li>• Output Voltage:- 220/230/240 +1%</li> <li>• Full Load Current: - Rated at 0.9 p.f.</li> <li>• Nominal Frequency:- 50Hz+0.05 Hz</li> <li>• Output Power Factor:- 0.9</li> <li>• Over Load Capacity:- 125% for 10 minutes &amp; 150% for 1 Minute</li> <li>• Static Voltage Regulation:- +6% for 50% step load change</li> <li>• Dynamic Voltage Regulation: +1% of Nominal for all variations change</li> <li>• Waveform:- Sinusoidal</li> <li>• Total Harmonic Distortion:- &lt;3%</li> <li>• Inverter Efficiency:- &gt;93% on full load</li> <li>• Crest Factor:- 3:01</li> <li>• Isolation Transformer: Galvanic Isolation Transformer at input</li> </ul> <p><b><u>User interface</u></b></p> <ul style="list-style-type: none"> <li>• Indications Mains ON, UPS ON, UPS Trip, UP OV/UV, Battery Low trip,</li> <li>• DisplayLCD Display for checking Input &amp; Output Parameters</li> <li>• Metering (Optional) Output Voltmeter, Output Ammeter</li> </ul>		
<b>4 BATTERY</b>			
4.1	<p>Back-up time :60 mins</p> <ul style="list-style-type: none"> <li>• The system must be capable of providing 01 hour of battery back-up time using Sealed lead-acid Maintenance Free batteries Min VAH = 8064 VAH with suitable stand (Total number of batteries, Voltage of each battery, Ampere-Hour rating and Total Volt-Ampere-Hour rating of the Battery Bank Offered should be clearly mentioned.)</li> <li>• Batteries should be either of “Exide” or “Amaron”</li> </ul>		
<b>5 Certifications</b>			
	<ul style="list-style-type: none"> <li>• <b>Certifications</b></li> <li>• ISO 9001:2008, ISO 14001:2004, CE</li> <li>• <b>Warranty</b></li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>Forty eight months on UPS and Thirty six months on Batteries.</li> <li>Quarterly visit to site, within warranty period including training of user on maintenance</li> </ul>		
8 Documentation			
	<ul style="list-style-type: none"> <li>Operating manuals, service manuals, other manuals</li> <li>Advanced maintenance tasks required shall be documented</li> <li>User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

**2. 15 KVA UPS with 120 mins backup - Qnty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
1 Description			
1.1	<b>15KVA</b> On-Line UPS System with inbuilt Isolation Transformer.		
2 Technology			
2.1	<b>DSP</b> (Digital Signal Processing) Technology using <b>IGBT rectifier and IGBT inverter</b>		
3 Technical Specifications			
3.1	<p><b><u>INPUT PARAMETERS</u></b></p> <ul style="list-style-type: none"> <li>Input voltage and voltage tolerance: 380/400/415 V. AC with tolerance range of(-15%, +20%)</li> <li>Input frequency : 45-55 Hz</li> <li>Input current distortion : &lt;5% THDI</li> <li>Input power factor: 0.99 without using filters</li> <li>Rectifier type: IGBT based only</li> <li>Isolation Transformer: Dedicated input Isolation transformer (1:1) at the input side, such that load is isolated even in bypass mode.</li> </ul> <p><b><u>OUTPUT PARAMETERS</u></b></p> <ul style="list-style-type: none"> <li>Output power : 15 KVA / 13.5 KW. Both KVA and KW ratings are to be maintained.</li> <li>Output power factor: 0.9</li> <li>Output voltage Regulation : 200 / 215/ 230 VAC, Single Phase</li> <li>Output voltage Regulation (Static): <math>\pm 1\%</math></li> <li>Output voltage Regulation (dynamic) : <math>\pm 5\%</math> with 1 milli-second recovery time</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>Overall Efficiency (AC-AC): 93% or better in Double Conversion mode. 97% or better in Eco-Mode.</li> </ul> <p><b>User interface</b></p> <ul style="list-style-type: none"> <li>LCD display</li> <li>Digital front panel display with backlit Graphical LCD display for measuring UPS parameters &amp; changing UPS Settings, Event Log etc.</li> </ul>		
<b>4 BATTERY</b>			
4.1	<p>Back-up time</p> <ul style="list-style-type: none"> <li>The system must be capable of providing 120 mins of battery back-up time using Sealed lead-acid Maintenance Free batteries Min VAH = 36000-40000 VAH with suitable stand (Total number of batteries, Voltage of each battery, Ampere-Hour rating and Total Volt-Ampere-Hour rating of the Battery Bank Offered should be clearly mentioned.)</li> <li>Batteries should be either of "Exide" or "Amaron"</li> </ul>		
<b>5 Certifications</b>			
	<p><b>Certifications</b> ISO 9001:2008, ISO 14001:2004, CE</p> <p><b>Warranty</b> Forty eight months on UPS and Thirty six months on Batteries Quarterly visit to site, within warranty period including training of user on maintenance</p>		
<b>8 Documentation</b>			
	<ul style="list-style-type: none"> <li>Operating manuals, service manuals, other manuals</li> <li>Advanced maintenance tasks required shall be documented</li> <li>User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

**3. 30 KVA UPS with 120 mins backup - Qnty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
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SI	Name	Technical Specs quoted by bidder	Deviation if any
1 Description			
1.1	<b>30KVA</b> On-Line UPS System with inbuilt Isolation Transformer.		
2 Technology			
2.1	<b>DSP</b> (Digital Signal Processing) Technology using <b>IGBT rectifier and IGBT inverter</b>		
3 Technical Specifications			
3.1	<p><b><u>INPUT PARAMETERS</u></b></p> <ul style="list-style-type: none"> <li>• Input voltage and voltage tolerance: 380/400/415 V</li> <li>• AC with tolerance range of(-15%, +20%)</li> <li>• Input frequency : 45-55 Hz</li> <li>• Input current distortion : &lt;5% THDI</li> <li>• Input power factor: 0.99 without using filters</li> <li>• Rectifier type: IGBT based only</li> <li>• Isolation Transformer: Dedicated input Isolation transformer (1:1) at the input side, such that load is isolated even in bypass mode.</li> </ul> <p><b><u>OUTPUT PARAMETERS</u></b></p> <ul style="list-style-type: none"> <li>• Output power : 30 KVA / 27 KW. Both KVA and KW ratings are to be maintained.</li> <li>• Output power factor: 0.9</li> <li>• Output voltage Regulation : 200 / 215/ 230 VAC, Single Phase</li> <li>• Output voltage Regulation (Static): ± 1%</li> <li>• Output voltage Regulation (dynamic) : ± 5% with 1 milli-second recovery time</li> <li>• Overall Efficiency (AC-AC): 93% or better in Double Conversion mode. 97% or better in Eco-Mode.</li> </ul> <p><b><u>User interface</u></b></p> <ul style="list-style-type: none"> <li>• LCD display</li> <li>• Digital front panel display with backlit Graphical LCD display for measuring UPS parameters &amp; changing UPS Settings, Event Log etc.</li> </ul>		
4 BATTERY			
4.1	<p>Back-up time</p> <ul style="list-style-type: none"> <li>• The system must be capable of providing 120 mins of battery back-up time using Sealed lead-acid Maintenance Free batteries Min VAH = 72000 VAH with suitable stand (Total number of batteries, Voltage of each battery, Ampere-Hour rating and Total Volt-</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	Ampere-Hour rating of the Battery Bank Offered should be clearly mentioned.) <ul style="list-style-type: none"> <li>Batteries should be either of "Exide" or "Amaron"</li> </ul>		
<b>5 Certifications</b>			
	<b>Certifications</b> ISO 9001:2008, ISO 14001:2004, CE <b>Warranty</b> Forty eight months on UPS and Thirty six months on Batteries. Quarterly visit to site, within warranty period including training of user on maintenance		
<b>8 Documentation</b>			
	<ul style="list-style-type: none"> <li>Operating manuals, service manuals, other manuals</li> <li>Advanced maintenance tasks required shall be documented</li> <li>User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

**4. 30 KVA Servo Controlled Voltage Stabilizer - Qty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
<b>1 Type</b>			
1.1	Unbalanced ,Air cooled		
<b>2 CAPACITY</b>			
2.1	30 KVA Servo Controlled Voltage Stabilizer. No. of phases= <b>Three Phase</b>		
<b>3 Technical Specifications</b>			
3.1	<ul style="list-style-type: none"> <li>VOLTAGE RANGE: 160-260Volts</li> <li>CORRECTION SPEED: Average 70 V Per Sec, Phase to Phase</li> <li>RESET: Manual / Auto Reset with time delay</li> <li>INSTRUMENTATION: Digital Voltmeter and Ammeter are provided to monitor input and output voltage and output current with the help of Selector switch</li> <li>AUDIO ALARM: For Tripping condition</li> <li>PROTECTION: <ul style="list-style-type: none"> <li>➤ Electronic Over &amp; Under voltage Trip.</li> <li>➤ Overload &amp; Short circuit protection through MCB</li> </ul> </li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>➤ Single phasing protection</li> <li>➤ Phase Reversal protection</li> </ul>		
<b>5 Certifications</b>			
	<b>Certifications</b> ISO 9001:2008, ISO 14001:2004, CE <b>Warranty</b> 2 years. Quarterly visit to site, within warranty period including training of user on maintenance		
<b>8 Documentation</b>			
	<ul style="list-style-type: none"> <li>• Operating manuals, service manuals, other manuals</li> <li>• Advanced maintenance tasks required shall be documented</li> <li>• User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

5. 20 KVA Servo Controlled Voltage Stabilizer - **Qty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
<b>1 Type</b>			
1.1	Unbalanced ,Air cooled		
<b>2 CAPACITY</b>			
2.1	20 KVA Servo Controlled Voltage Stabilizer. No. of phases= <b>Three Phase</b>		
<b>3 Technical Specifications</b>			
3.1	<ul style="list-style-type: none"> <li>• VOLTAGE RANGE: 160-260Volts</li> <li>• CORRECTION SPEED: Average 70 V Per Sec, Phase to Phase</li> <li>• RESET: Manual / Auto Reset with time delay</li> <li>• INSTRUMENTATION: Digital Voltmeter and Ammeter are provided to monitor input and output voltage and output current with the help of Selector switch</li> <li>• AUDIO ALARM: For Tripping condition</li> <li>• PROTECTION: <ul style="list-style-type: none"> <li>➤ Electronic Over&amp; Under voltage Trip.</li> <li>➤ Overload &amp; Short circuit protection through MCB</li> <li>➤ Single phasing protection</li> <li>➤ Phase Reversal protection</li> </ul> </li> </ul>		
<b>5 Certifications</b>			
	<b>Certifications</b> ISO 9001:2008, ISO 14001:2004, CE		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<b>Warranty</b> 2 years. Quarterly visit to site, within warranty period including training of user on maintenance		
<b>8 Documentation</b>			
	<ul style="list-style-type: none"> <li>Operating manuals, service manuals, other manuals</li> <li>Advanced maintenance tasks required shall be documented</li> <li>User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

6. 50 KVA Servo Controlled Voltage Stabilizer - **Qty: 02 Nos.**

SI	Name	Technical Specs quoted by bidder	Deviation if any
<b>1 Type</b>			
1.1	Unbalanced ,Air cooled		
<b>2 CAPACITY</b>			
2.1	50 KVA Servo Controlled Voltage Stabilizer. No. of phases= <b>Three Phase</b>		
<b>3 Technical Specifications</b>			
3.1	<ul style="list-style-type: none"> <li>VOLTAGE RANGE: 160-260Volts</li> <li>CORRECTION SPEED: Average 70 V Per Sec, Phase to Phase</li> <li>RESET: Manual / Auto Reset with time delay</li> <li>INSTRUMENTATION: Digital Voltmeter and Ammeter are provided to monitor input and output voltage and output current with the help of Selector switch</li> <li>AUDIO ALARM: For Tripping condition</li> <li>PROTECTION: <ul style="list-style-type: none"> <li>➤ Electronic Over&amp; Under voltage Trip.</li> <li>➤ Overload &amp; Short circuit protection through MCB</li> <li>➤ Single phasing protection</li> <li>➤ Phase Reversal protection</li> </ul> </li> </ul>		
<b>5 Certifications</b>			
	<b>Certifications</b> ISO 9001:2008, ISO 14001:2004, CE <b>Warranty</b> 2 years.		



SI	Name	Technical Specs quoted by bidder	Deviation if any
	Quarterly visit to site, within warranty period including training of user on maintenance		
8 Documentation			
	<ul style="list-style-type: none"> <li>• Operating manuals, service manuals, other manuals</li> <li>• Advanced maintenance tasks required shall be documented</li> <li>• User manuals to be supplied in English/Hindi language along with machine diagrams.</li> </ul>		

***All other terms and conditions of the tender referred to above shall remain unchanged. The last date of bid submission is 18/07/2016 till 2:00 PM.***

**Sd/-  
Mission Director, NHM, Assam**