

Notice Inviting e-Tender
West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

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Notice Inviting Tender No: WBMSC/ NIT-69(2nd call)/2016

Date: 01.10.2016

(2nd call of Bid Reference No. WBMSC/ NIT-57/2016

Date: 01.10.2016)

The following amendments have been made in the tender for procurement of Supply, Installation, Testing & Commissioning of 15 KVA, 20 KVA and 30 KVA three phase in & three phase out Servo Controlled Voltage Stabiliser. The changes are highlighted in yellow in the document below,

Amendment 2

Technical Specification for 15 KVA 3 phase input & 3 phase out put servo controlled voltage stabiliser FOR UPS
Topology: Air Cool
Input Voltage: 3 Phase, 300V-460V (Unbalance). Single Phase 173V-266V
Output Voltage: 400 VAC +/- 2% (Individual Phase Current: 22.3 amp)
Major Component: Using Copper wire for Variac & Buck Boost transformer, line condition unit, where each phase to be connected independly @ 3 independent & individual controllers, one for each phase are to be employed
Phase Reverse: Phase reverse protection should be present
3 phase MCB as per KVA rating at input
Manual Bypass Arrangement with selector switch and terminal
Surge Suppressor cum protection Device along with remote sensing to cut off input MCCB as IEC 61000-4-5 Class II per phase
Manual Controlled with locking Arrangement to change output voltage by +/- 5%
Auto Manual operation for phase
Efficiency: > 95%
Speed of Correction: 70 volt /sec
Response time: Less than or equal to 10 milli second
Immunity to load PF & supply frequency variation
Power loss: 1000 VA, 800WATT
Duty cycle: Continuous

Short time over load: PROVIDE WITH ELECTRONIC O/L PROT.
Operating frequency range: 50 Hz +/- 5%
Insulation Resistance: Test By Megger
Dielectric test: Using high voltage test 2 KV for 1 min on power component only
Life expectancy : 10-15 years
Storage Temperature: 0-60 degree c
Constructional Requirement
Enclosure: Sheet Metal, minimum thickness 1.6 mm for non load bearing section and 3 mm for channel
Mounting: Floor Mounting
Dimensions (mm) : W-600 x D-600 x H-1400 (approx)
Cable entry : TOP CABLE ENTRY
Cable Terminal Box: For Incoming and outgoing Terminal
Cooling: AIR Cooling
Degree Protection: IP 23
Operating Temperature: 0-45 Deg c
Relative Humidity: % to 95% NON CONDENSING
Protection Parameters: Input high & Low Voltage, Surge Protection, overload, Single phasing
Measurement System: Input Voltmeter, Voltmeter selector switch, Ammeter, Output Voltmeter
LED Indication: Mains Healty, R,Y,B, EB Contractor ON,AVR Trip, Unit On By Pass
Certification: ISO 9001: 2008, ISO 14001: 2004, ISO 18001, RoHS and OHSAS 18001 Certified
Certification: ISO 20000-1:2011 & ISO 27000:2005
IEC/EN 62040-1-1,IEC/EN50091-1,IEC/EN 60950 (Safety) IEC/EN 50091-2, IEC/EN 62040-2(EMC Emmission),IEC/EN 62040-3(performance & Design)IEC/EN 61000-4(EMC Emmunity) & IEC/EN 60146 (Design & Manufacture)
VAT @14.5% EXTRA, DELIVERY: WITHIN 45 DAYS, PAYMENT; 50% ADV & BALANCE AGAINST DELIVERY, OTHER TERMS: AS USUAL WITH SWITCHING- Deleted

Technical Specification for 20 KVA 3phase input & 3 phase out put servo controlled voltage stabiliser
Topology: Air Cool
Input Voltage: 3 Phase, 300V-460V (Unbalance). Single Phase 173V-266V
Output Voltage: 400 VAC +/- 2% (Individual Phase Current: 27.8 amp)
Major Component: Using Copper wire for Variac & Buck Boost transformer, line condition unit, where each phase to be connected indecently @ 3 independent & individual controllers, one for each phase are to be employed
Phase Reverse: Phase reverse protection should be present
3 phase MCB as per KVA rating at input.
Manual Bypass Arrangement with selector switch and terminal
Surge Suppressor cum protection Device along with remote sensing to cut off input MCCB as IEC 61000-4-5 Class II per phase
Manual Controlled with locking Arrangement to change output voltage by +/- 5%
Auto Manual operation for phase
Efficiency: > 95%
Speed of Correction: >70V/SEC(PH-PH)
Response time: <10MILLI SEC
Immunity to load PF & supply frequency variation
Power loss: 1000 VA, 800WATT
Duty cycle: Continuous
Short time over load: WITH ELECTRONIC O/L PROT.
Operating frequency range: 50 Hz +/- 5%
Insulation Resistance: Test By Megger
Dielectric test: Using high voltage test 2 KV for 1 min on power component only
Life expectancy : 10-15 years
Storage Temperature: 0-60 degree c
Constructional Requirement
Enclosure: Sheet Metal, minimum thickness 1.6 mm for non load bearing section and 3 mm for channel
Mounting: Floor Mounting
Dimensions (mm) : W-600 x D-600 x H-1400 (approx)
Cable entry : TOP CABLE ENTRY
Cable Terminal Box: For Incoming and outgoing Terminal
Cooling: Air Cooling
Degree Protection: IP 23
Operating Temperature: 0-45 Deg c
Relative Humidity: 0% to 95%NON CONDENSING
Protection Parameters: Input high & Low Voltage, Surge Protection, overload, Single phasing
Measurement System: Input Voltmeter, Voltmeter selector switch, Ammeter, Output Voltmeter

LED Indication: Mains Healthy, R,Y,B, EB Contractor ON,AVR Trip, Unit On By Pass
Certification: ISO 9001: 2008, ISO 14001: 2004, ISO 18001, RoHS and OHSAS 18001 Certified
Certification: ISO 20000-1:2011 & ISO 27000:2005
IEC/EN 62040-1-1,IEC/EN50091-1,IEC/EN 60950 (Safety) IEC/EN 50091-2, IEC/EN 62040-2(EMC Emmission),IEC/EN 62040-3(performance & Design)IEC/EN 61000-4(EMC Immunity) & IEC/EN 60146 (Design & Manufacture)
VAT @14.5% EXTRA, DELIVERY: WITHIN 45 DAYS, PAYMENT; 50% ADV & BALANCE AGAINST DELIVERY, OTHER TERMS: AS USUAL WITH SWITCHING- Deleted

Technical Specification for 30 KVA 3phase input & 3 phase out put servo controlled voltage stabiliser FOR UPS
Topology: Air Cool
Input Voltage: 3 Phase, 300V-460V (Unbalance). Single Phase 173V-266V
Output Voltage: 400 VAC +/- 2% (Individual Phase Current: 41.3 amp)
Major Component: Using Copper wire for Variac & Buck Boost transformer ,line condition unit, where each phase to be connected indecently @ 3 independent & individual controllers, one for each phase are to be employed
Phase Reverse: Phase reverse protection should be present
3 phase MCB as per KVA rating at input only
Manual Bypass Arrangement with selector switch and terminal
Surge Suppressor cum protection Device along with remote sensing to cut off input MCCB as IEC 61000-4-5 Class II per phase
Manual Controlled with locking Arrangement to change output voltage by +/- 5%
Auto Manual operation for phase
Efficiency: > 95%
Speed of Correction: 70 volt /sec
Response time: Less then or equal to 10 milli second
Immunity to load PF & supply frequency variation
Power loss: 1500 VA, 1200WATT
Duty cycle: Continuous
Short time over load: WITH ELECTRONIC O/L PROT.
Operating frequency range: 50 Hz +/- 5%
Insulation Resistance: Test By Megger
Dielectric test: Using high voltagr test 2 KV for 1 min
Life expectancy : 10-15 years
Storage Temperature: 0-60 degree c
Constructional Requirment

Enclosure: Sheet Metal, minimum thickness 1.6 mm for non load bearing section and 3 mm for channel
Mounting: Floor Mounting
Dimensions (mm) : W-600 x D-600 x H-1450 (approx)
Cable entry : TOP CABLE ENTRY
Cable Terminal Box: For Incoming and outgoing Terminal
Cooling: Air cooling
Degree Protection: IP 23
Operating Temperature: 0-45 Deg cent
Relative Humidity: % to 100%
Protection Parameters: Input high & Low Voltage, Surge Protection, overload, Single phasing
Measurement System: Input Voltmeter, Voltmeter selector switch, Ammeter, Output Voltmeter
LED Indication: Mains Healty, R,Y,B, EB Contractor ON,AVR Trip, Unit On By Pass
Certification: ISO 9001: 2008, ISO 14001: 2004, ISO 18001, RoHS and OHSAS 18001 Certified
Certification: ISO 20000-1:2011 & ISO 27000:2005
IEC/EN 62040-1-1,IEC/EN50091-1,IEC/EN 60950 (Safety) IEC/EN 50091-2, IEC/EN 62040-2(EMC Emmission),IEC/EN 62040-3(performance & Design)IEC/EN 61000-4(EMC Emmunity) & IEC/EN 60146 (Design & Manufacture)
VAT @14.5% EXTRA, DELIVERY: WITHIN 45 DAYS, PAYMENT; 50% ADV & BALANCE AGAINST DELIVERY, OTHER TERMS: AS USUAL WITH SWITCHING- Deleted