



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

TITLE
**CORRIGENDUM FOR TECHNICAL
SPECIFICATION AND DUE DATE EXTENSION**

Phone: +91 431 2574354/ 5636

Email : govindaraj@bhel.in

sonu@bhel.in ,

GeM Portal Bid Number & Date

GEM/2024/B/5500201 Dt 14.10.2024

Due date for submission of quotation

29/10/2024

You are requested to quote the GeM Portal Bid Number & Date and due date in all your correspondences.
This is only a request for quotation and not an order

CORRIGENDUM

Details of Corrigendum

- 1. Due date for submission of offers has been extended from 24/10/2024 to 29/10/2024.**
- 2. Technical Specification corrigendum is issued. Revised Technical specifications is attached.**

All other terms and conditions as published in the GeM portal against Bid number:

GEM/2024/B/5500201 remains unaltered.

Yours faithfully,

For **Bharat Heavy Electricals Limited**

Manager/MM/CPSP & WC

Ph: 0431- 2575636/ 4354,

Email: sonu@bhel.in , govindaraj@bhel.in

Revised Technical Specification

PR: 89907600 - Inverter and Servo stabilizer for Machines in HPBP Complex.

Item No: 10 - 50KVA servo stabilizer

Specification for 50KVA 380V Output stabilizer:

Input Volts: 415 VAC, 3 phase +/- 10 %

Output Volts: 380 VAC, 3 Phase

Output voltage adjustable range: 380 to 415 VAC

Rating: 50 KVA, 3 Phase

Power Factor: suitable for load power factor 0.8

Type: Suitable for unbalanced load & supply conditions

Cooling: Natural Air Cooled

Mode of Operation: Fully automatic system based on microcontroller with display

Display: vendor to provide details

Connection: ~~Delta / Star~~ **star/star**

Overload Capacity: 120%

Rate of Correction: 60 Volts / Sec or better

Ambient: 0-45 Degree @ 90% R.H.

Frequency: 50 Hz +/- 5%

Output voltage regulation: +/- 1% (No Load / Full Load)

INDICATIONS:

1. Input ON Pilot LED#s Each phase
2. 3Ph Output ON
3. Phase reversal
4. Overload
5. Menu
6. Start
7. Stop/Reset

Di-electric Strength: 1500VAC for 60 Seconds or better

Under voltage/over voltage cutoff: to be provided

Short circuit protection: to be provided

Single phasing prevention: to be provided

Phase reversal trip: to be provided

Emergency off switch: to be provided

Waveform Distortion: Nil

Enclosure: Enclosed in sheet metal structure of adequate thickness with louvers for ventilation and wheels for mobility ENCLOSURE PAINT SHADE: SIEMENS GREY

MAXIMUM EFFICIENCY more than 97%

METERING: Voltmeter and Ammeter

NOTE:

1. Detailed product catalogue of the offered model to be enclosed with the offer
2. Warranty: Atleast 1 year from date of acceptance at BHEL

Item No: 20 - 100KVA servo stabilizer

Specification for 100KVA stabilizer:

Input Volts: 415 VAC, 3 phase +/- 10 %

Output Volts: 415 VAC, 3 Phase

Output voltage adjustable range: 380 to 415 VAC

Rating: 100 KVA, 3 Phase

Power Factor: suitable for load power factor 0.8

Type: Suitable for unbalanced load & supply conditions

Cooling: Natural Air Cooled

Mode of Operation: Fully automatic system based on microcontroller with display

Display: vendor to provide details

Connection: ~~Delta / Star~~ **star/star**

Overload Capacity: 120%

Rate of Correction: 60 Volts / Sec or better

Ambient: 0-45 Degree @ 90% R.H.

Frequency: 50 Hz +/- 5%

Output voltage regulation: +/- 1% (No Load / Full Load)

INDICATIONS:

1. Input ON Pilot LED#s Each phase
2. 3Ph Output ON
3. Phase reversal
4. Overload
5. Menu
6. Start
7. Stop/Reset

Dielectric Strength: 1500VAC for 60 Seconds or better

Under voltage/over voltage cut off: to be provided

Short circuit protection: to be provided

Single phasing prevention: to be provided

Phase reversal trip: to be provided

Emergency off switch: to be provided

Waveform Distortion: Nil

Enclosure: Enclosed in sheet metal structure of adequate thickness with louvers for ventilation and wheels for mobility ENCLOSURE PAINT SHADE: SIEMENS GREY

MAXIMUM EFFICIENCY more than 97%

METERING: Voltmeter and Ammeter

NOTE:

1. Detailed product catalogue of the offered model to be enclosed with the offer
2. Warranty: Atleast 1 year from date of acceptance at BHEL

Item No: 30 - 1Ph 1KVA UPS

Specification for 1 KVA UPS:

Nominal Input Voltage: 100VAC-300VAC

Nominal frequency: 50Hz +/- 3 %

Battery: 24 VDC

Nominal input current: 4.5A

Backup Time: 20 Minutes

Output Power(VA) max: 1000VA

Output Power(W) max: 900 W

Output Power Factor: 0.9

Output Waveform: Pure sine wave

Output nominal voltage: 220VAC/230VAC/240VAC

Output Voltage Variation: $\pm 1\%$

Output Frequency in inverter mode Synchronization range: 45-55Hz / 54-66Hz

Transfer time Inverter Mode to Battery Mode.: 0ms

Transfer Time Inverter Mode to Bypass Mode: 4ms

Indications: Mains on, Inverter On, Battery Low, Over Load, Output Under Voltage, Output Over

Voltage, DC Over Voltage

Audible Alarm: mains fail. Battery low pre-alarm at 80 % of Battery Discharge,

Intermittent Beep for all other Trip Conditions

Protections: Output Overload, Output short circuit, Battery low trip, DC over voltage,

Output under voltage / over voltage.

NOTE:

1. Detailed product catalogue of the offered model to be enclosed with the offer
2. Warranty: Atleast 1 year from date of acceptance at BHEL

Item No: 40 - 3KVA Lighting Inverter for Emergency lighting

Specification for 3KVA Lighting Inverter for Emergency lights:

Note:

Output: Output Enable Only in Power Off condition.

INBUILT DELAY: 15 Minutes delay should be maintained to change from battery mode to main AC power mode, when power comes back after failure.

Specification:

Nominal input voltage: **1 Phase 100VAC-300VAC**

Maximum Emergency Bulb Load: 2400W

Nominal frequency: 50Hz +/- 3 %

Battery: 48 VDC

Battery mode: less than 3% RMS for entire battery voltage range

Line mode: Same as AC main input

Battery mode: 50 HZ +/- 0.1 HZ

Wave form: pure sine wave

Efficiency: greater than or equal to 85%

Line mode: greater than 200% then main ON LED should blink continuously

Battery mode: 110% -150% for 36 sec

Control: Miniature circuit breaker

Control Panel: LED or LCD display with status indications for System Ready, Mains ON, Inverter ON, Charging/Charged, Overload/Over temp etc.

Audible alarm for low battery indication

Protection features: Input High/low voltage, Battery Low, Over load, Over temperature, Short circuit

Operating temp: 15-50 deg Celsius

Audible noise: Less than 70dbA (at 1m)

Note:

Output: Output Enable Only in Power Off condition.

INBUILT DELAY: 15 Minutes delay should be maintained to change from battery mode to main AC power mode, when power comes back after failure.

NOTE:

1. Detailed product catalogue of the offered model to be enclosed with the offer
2. Warranty: Atleast 1 year from date of acceptance at BHEL