



**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI – 620 015
ESTATE MAINTENANCE DEPARTMENT**

www.nitt.edu Phone no.0431-2503835

NOTICE INVITING TENDERS NO: NITT/EM/EO/AE(E)/Enq.No.16/2011-2012.

TENDER NOTIFICATION

Ref: NITT/EM/EO/AE(E)/Enq.No.16/2011-2012.

Date.08.07.2011

The Estate officer, Estate Maintenance Department , NIT,Trichy- 620 015 invites on behalf of The Director, NIT,Trichy-620 015 sealed item rate tenders from Suppliers/Manufactures.

The tender will be opened by the Registrar on the date in his chamber. Tender opening time at **3.30 p.m on.15.07.2011.**

Details

Enq No.	Name of works	Estimate cost Rs.	Earnest Money Rs	Last date for Issue of tender schedule	Last date for submission of the tenders	Tender schedule cost
16.	Purchase of Battery Charges and Batteries.	2,30,100/-	2300/-	15.07.11	15.07.2011 3.00pm	216/-

The tender should accompany earnest money deposit, tender schedule cost as detailed above separate demand drafts for tender schedule cost and Earnest Money Deposit. The Demand Draft drawn in favor of Director, NIT, Trichy – 15. Payable at SBI, NIT, Trichy – 15.

The Earnest Money Deposit will be returned to the unsuccessful tenderer. The Earnest Money Deposit will be retained in the case of successful tenderer and will not earn any interest. Tenderer should submit the following documents compulsory. If any of the documents is not furnished the tender will be treated as invalid and left out of the consideration.

- Cost of the items should be given as 'per piece' and inclusive of taxes, transportation cost to office etc, but should not exceed MRP of the items.
- Income Tax permanent Account No. [Submit photo – copy of proof].
- Income Tax clearance certificate from the year 2007 – 08 [Submit photo – copy of proof]
- VAT No. [Submit photo – copy of proof]
- Service Tax [Submit photo – copy of proof]
- Tender document duly filled in and signed.
- Any other information, useful for the purpose of finalizing the offer.

Payment will be made after verification the supplied materials as per make and standard asked for. Please send your quotation addressing The Director, NIT, Trichy – 15.

The tender details and schedule of tender can be down loaded from our institute web site

www.nitt.edu

Copy to convener/CSG/ for advertising in web.

Estate officer

TECHNICAL SPECIFICATION

Mode of charging : Float cum Booster charger

Charger rating : Suitable for 12V DC, 20A

INPUT

Supply voltage : 230V AC, $\pm 10\%$, 50Hz

Phase : Single phase

OUTPUT

Output Voltage : 12 VDC

Float Voltage : 13.5 VDC

Boost Voltage : 14.1 VDC

System Output : Max. 16.2V DC

Mode of conversion : full controlled Bridge rectifier
Thyristor Module is used

Ripple Content : 3% RMS or Better

MODE OF OPERATION

Float mode : Constant voltage charging

Boost mode : Constant current charging

Mode of selection : Automatically selected in auto mode
and selected manually in manual mode.

METERS

Voltmeter : Moving coil voltmeter with selector
Charge switch provided for Battery &
voltage

Ammeter : Moving coil Ammeter provided

Meters dimension : 96 Sq. mm

INDICATIONS

Input Mains ON indication : Provided

LED indications : Provided for Charger ON, Float ON, Booster ON, Over voltage, Over current, Battery reverse

CIRCUIT PROTECTION

AC input circuit breaker : Provided

Semiconductor fuses for bridge circuit : Provided

DC overload protection : Provided

Dc output circuit breaker : Provided

Operating temperature : Max. 55°C

CONTROLS

Auto / manual selection panel : By selector switch provided on front panel

Manual float / boost selection panel : By selector switch provided on front panel

Float voltage set adjust panel : By Potentiometer provided on front panel

Boost voltage set adjust panel : By Potentiometer provided on front panel

Charge current set adjust panel : By Potentiometer provided on front panel

CASE AND DIMENSIONS

Box Dimension (Approximately) : 500(W) 250(H) x 500(D) mm

Mounting : Free standing (or) Floor mounting

Cooling : Forced air cooling

Housing of the equipment : Sheet metal enclosure

TECHNICAL SPECIFICATION

Mode of charging : Float cum Booster charger

Charger rating : Suitable for 24V DC, 10A

INPUT

Supply voltage : 230V AC, $\pm 10\%$, 50Hz

Phase : Single phase

OUTPUT

Output Voltage : 24 V DC

Float Voltage : 27 VDC

Boost Voltage : 28.2 VDC

System Output : Max. 32.4V DC

Mode of conversion : full controlled Bridge rectifier
Thyristor Module is used

Ripple Content : 3% RMS or Better

MODE OF OPERATION

Float mode : Constant voltage charging

Boost mode : Constant current charging

Mode of selection : Automatically selected in auto mode
and selected manually in manual mode.

METERS

Voltmeter : Moving coil voltmeter with selector
Charge switch provided for Battery &
voltage

Ammeter : Moving coil Ammeter provided

Meters dimension : 96 Sq. mm

INDICATIONS

Input Mains ON indication	: Provided
LED indications	: Provided for Charger ON, Float ON, Booster ON, Over voltage, Over current, Battery reverse

CIRCUIT PROTECTION

AC input circuit breaker	: Provided
Semiconductor fuses for bridge circuit	: Provided
DC overload protection	: Provided
Dc output circuit breaker	: Provided
Operating temperature	: Max. 55°C

CONTROLS

Auto / manual selection panel	: By selector switch provided on front panel
Manual float / boost selection panel	: By selector switch provided on front panel
Float voltage set adjust panel	: By Potentiometer provided on front panel
Boost voltage set adjust panel	: By Potentiometer provided on front panel
Charge current set adjust panel	: By Potentiometer provided on front panel

CASE AND DIMENSIONS

Box Dimension (Approximately)	: 500(W) 250(H) x 500(D) mm
Mounting	: Free standing (or) Floor mounting
Cooling	: Forced air cooling
Housing of the equipment	: Sheet metal enclosure

TECHNICAL SPECIFICATION

Mode of charging : Float cum Booster charger
Charger rating : Suitable for 110V DC, 5A

INPUT

Supply voltage : 230V AC, $\pm 10\%$, 50Hz
Phase : Single phase

OUTPUT

Output Voltage : 110 VDC
Float Voltage : 124 VDC
Boost Voltage : 130 VDC
System Output : Max. 148.5 V DC
Mode of conversion : full controlled Bridge rectifier
Thyristor Module is used
Ripple Content : 3% RMS or Better

MODE OF OPERATION

Float mode : Constant voltage charging
Boost mode : Constant current charging
Mode of selection : Automatically selected in auto mode
and selected manually in manual mode.

METERS

Voltmeter : Moving coil voltmeter with selector
Charge switch provided for Battery &
voltage
Ammeter : Moving coil Ammeter provided
Meters dimension : 96 Sq. mm

INDICATIONS

Input Mains ON indication : Provided

LED indications : Provided for Charger ON, Float ON, Booster ON, Over voltage, Over current, Battery reverse

CIRCUIT PROTECTION

AC input circuit breaker : Provided

Semiconductor fuses for bridge circuit : Provided

DC overload protection : Provided

Dc output circuit breaker : Provided

Operating temperature : Max. 55°C

CONTROLS

Auto / manual selection panel : By selector switch provided on front panel

Manual float / boost selection panel : By selector switch provided on front panel

Float voltage set adjust panel : By Potentiometer provided on front panel

Boost voltage set adjust panel : By Potentiometer provided on front panel

Charge current set adjust panel : By Potentiometer provided on front panel

CASE AND DIMENSIONS

Box Dimension (Approximately) : 600(W) 600(H) x 600(D) mm

Mounting : Free standing (or) Floor mounting

Cooling : Forced air cooling

Housing of the equipment : Sheet metal enclosure

Battery Specifications

12 V Battery 180AH -4 Nos Lead Acid Type

12V 65AH/60AH -9 Nos ,2 V 65/60 Ah 1 No Lead Acid Type

SCHEDULE OF QUANTITIES

State Tamilnadu.

Branch Electrical.

Name of Work : Purchase of Battery
Charges and Batteries.

S.No.	DESCRIPTION OF ITEM	QTY	Rate	UNIT	AMOUNT
1.1.1	<u>SH 1 NITT Items</u> 240/110V 5 Amps Battery Charger.(ICD/Equivalent with ISI)	1 Nos.		Nos.	
1.1.2	240/ 24 V 10 Amps Battery Charger.(ICD/Equivalent with ISI)	1 Nos.		Nos.	
1.1.3	240 / 12 V 10 Amps Battery Charger.(ICD/Equivalent with ISI)	1 Nos.		Nos.	
1.1.4	12V, 180 AH Battery.(Exide/Equivalent with ISI)	4 Nos.		Nos.	
1.1.5	12V 65/60AH, 2V 65/60AH.(Exide/Equivalent with ISI)	10 Nos.		Nos.	
1.1.6	Transport + Commissioning Charges.	1 Lumsum		Lumsum	

Total