

**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.**

**TENDER NOTICE**

Sealed and separate tenders are invited by the undersigned from reputed and experienced Firms/Contractors of Electric 'A' class valid license holder from Uttarakhand Government or equivalent authority for the following works. Brief summary of work and details of tender are given below:

Specn.No.	Name of Work	Cost of Tender Documents (In Rs.)	Earnest Money (In Rs.)	Last date of Receipt of Tender Document	Date of Opening of tender Part-I	Date of Opening of tender Part-II
<b>T-35/SE /12-13</b>	Procurement of 220 Volt Battery Charger at 400KV S/s Rishikesh.  <b>Pre-qualification of the Tender:</b>  <b>Only those bidders will be treated as qualified who have executed the similar nature Of work in any UPCL/PTCUL for the last 2 years &amp; they are A-Class Electrical Contractor.</b>	300.00 + 13.5% VAT	5000.00	06.03.13	07.03.13	07.03.13

For eligibility criteria and full & further details kindly visit our web site. The tender shall only be down loaded from our web site i.e. [www.ptcul.org](http://www.ptcul.org) / tender up to one day before date of opening and their cost have to e paid at the time of submission of the Tender. The undersigned reserves the right to reject one or all tenders without assigning any reason thereof.

**Superintending Engineer  
400 K.V. SUB STATION O&M DIVISION VIRBHADRA, RISHIKESH**

**“Save Electricity in the Interest of the Nation”**

**TECHNICAL SPECIFICATION FOR PROCUREMENT OF 220 VOLT BATTERY CHARGER AT 400KV S/S RISHIKESH AGAINST TENDER SPECIFICATION NO. T-35/SE/2012-13:**

**SCOPE OF WORK:** Procurement of 220 Volt Battery Charger at 400KV S/s Rishikesh, the scope of work as under:

1. The DC system for 220 V DC is unearthed and for 48 V DC is +ve earthed. The battery chargers as well as their automatic regulators shall be of static type and shall be compatible with offered VRLA batteries. All battery chargers shall be capable of continuous operation at the respective rated load in float charging mode, i.e. float charging the associated lead-Acid batteries at 2.13 to 2.27 Volts per cell while supplying the DC load. The Chargers shall also be capable of Boost charging the associated DC Battery at 2.28 to 2.32 Volts per cell at the desired rate. Charger shall regulate the float/boost voltage in case of prescribed temperature rise of battery as per manufacturer's recommendation to avoid thermal runaway. Necessary temperature sensors shall be provided in mid location of battery banks and shall be wired up to the respective charger for feedback control. The manufacturer shall demonstrate this feature during testing of each charger.
2. all battery charger shall be provided with facility for both automatic and manual control of output voltage and current. A selector switch shall be provided for selecting the mode of output voltage/ current control, whether automatic or manual. When on automatic control mode during Float charging, the charger output voltage shall remain within  $\pm 1\%$  of the set value, for AC input voltage variation of  $\pm 10\%$ , frequency variation of  $\pm 5\%$ , a combined voltage and frequency variation of  $\pm 10\%$ , and a DC load variation from zero to full load.
3. All battery chargers shall have a constant voltage characteristics throughout the range (from zero to full load) at the floating value of the voltage so as to keep the battery fully charged but without harmful overcharge.
4. All Chargers shall have load limiters having drooping characteristic, which shall cause, when the voltage control is in automatic mode, a gradual lowering of the output voltage when the DC load current exceeds the load limiter setting of the Charger. The load-limiter characteristics shall be such that any sustained overload or short circuit in DC system shall not damage the Charger, nor shall it cause bowing of any of the charger fuse, the charger shall not trip on overload or external short circuit.
5. Uniform and step less adjustments of voltage setting shall be provided on the front of the charger panel covering the entire float charging output range specified. Step less adjustments of the load limiter setting shall also be possible from 80% to 100% of the rated output current for charging mode.
6. During Boost Charging, the battery charger shall operate on constant current mode. It shall be possible to adjust the boost charging current continuously over a range of 50 to 100% of the rated output current for Boost charging mode.

7. The charger output voltage shall automatically go on rising, when it is operating on Boost mode, as the Battery Charges up. For limiting the output voltage of the chargers, a potentiometer shall be provided on the front of the panel, whereby it shall be possible to set the upper limit of this voltage any where in the output range specified for Boost charging mode.
8. The Charger manufacturer may offer an arranging in which the voltage setting device for float charging mode is also used as output voltage limit setting device for boost charging mode and the load limiter of float charging mode is used as current setting device in boost charging mode.
9. Suitable filter circuits shall be provided in all the chargers to limit the ripple content (peak to peak) in the output voltage to 1%, irrespective of the DC load level, when they are not connected to a battery.
10. **MCCB:** All battery chargers shall have 2 Nos. MCCB's on the input side to receive cables from two sources. Mechanical interlock should be provided such that only one shall be closed at a time. It shall be of P2 duty and suitable for continues duty. MCCB's should have auxiliary contacts for annunciation.
11. **Rectifier Transformer:** The rectifier T/F shall be continuously rated dry air cooled and of class F insulation type. The rating of the rectifier T/F shall have 10% overload capacity.
12. **Rectifier Assembly:** The rectifier assembly shall be fully/half controlled bridge type and shall be designed to meet the duty as required by the respective charger. The rectifier shall be provided with heat sink having their own heat dissipation arrangements with natural air cooling. Necessary surge protection devices and rectifier type fast acting HRC fuses shall be provided in each arm of the rectifier connections.
13. **Instructions:** One AC voltmeter and one AC ammeter alongwith selector switches shall be provided for all chargers. One DC voltmeter and DC ammeter (with shunt) shall be provided for all chargers. The instruments shall be flush type, dust proof and moisture resistant. The instruments shall have easily accessible means for zero adjustment. The instruments shall be of 1.5 accuracy class. In addition to the above a centre zero voltmeter with selector switch shall also be provided for 220V Chargers for testing purpose.
14. **Air Break Switches:** one DC output switch shall be provided in all chargers. They shall be air break type suitable for 500 Volts AC/ 250 DC. The contacts of the switch shall be open and close with a snap action. The operating handle of the switch shall be fully insulated from circuit. 'ON' and 'OFF' position on the switch shall be clearly indicated. Rating of switches shall be suitable for their continuous load. Alternatively, MCCB's of suitable shall also acceptable in place of Air Break Switch.
15. **Fuses:** All fuses shall be HRC Link type. Fuses shall be mounted on fuse carriers which are in turn mounted on fuse bases. Wherever it is not possible to must fuses on carriers, fuses shall be directly mounted on plug-n type base. In such case one

insulated fuse pulling handle shall be supplied for each charger. Fuse rating shall be chosen by the Bidder depending on the circuit requirement. All fuses in the chargers shall be monitored. Fuse failure annunciation shall be provided on the failure of any fuse.

16. **Blocking Diode:** Blocking diode shall be provided in the positive pole of the output circuit of each charger to prevent current flow from the DC battery into the charger.
17. **Annunciation system:** Audio-visual indications through bright LED's shall be provided in all chargers for the following abnormalities:
  - a. AC power failure.
  - b. Rectifier/ chargers fuse blown.
  - c. Over voltage across the battery when boost charging.
  - d. Abnormal voltage (high/low)
  - e. Any other annunciation if required.

Potential free NO contacts of above abnormal conditions shall also be provided for common remote indication "CHARGER TROUBLE" on owner's control board. Indication for charger in float mode and boost mode through indication lamps shall be provided for chargers. A potential free contact for float/ boost mode shall be provided for external interlocks.

18. **Name plates and Marking:** The name plates shall be white with engraved letters. On top of each Charger, on front as well as rear sides, larger and bold name plates shall be provided to identify the Charger. Name plates with full and clear inscriptions shall also be provided and inside of the panels for identification of the various equipments and easy operation and maintenance.
19. **Charger Construction:** The chargers shall be indoor, floor-mounted, self-supporting sheet metal enclosed cubicle type. The contractor shall supply all necessary base frames, anchor bolts and hardware. The chargers shall be fabricated from 2mm cold rolled sheet steel and shall have folded type of construction. Removable gland plates for all cable and lugs for power cables shall be supplied by the contractor. The lugs for power cables shall be made of electrolytic copper with tin coat. Power cables sized shall be advised to the contractor at a later date for provision of suitable lugs and drilling of gland plates. The charger shall be tropical and vermin proof. Ventilation louvers, if provided shall be backed with screens. All doors and covers shall be fitted with synthetic rubber gaskets. The chargers shall have hinged double leaf doors provided on front and on backside for adequate access to the charger's internals.

All indicating instructions, control switches and indicating lamps shall be mounted on the front side of the chargers.

Each charger shall be furnished completely wired up to power cable lugs and terminal blocks ready for external connections. The control wiring shall be carried out with PVC insulated 1.5 Sq mm stranded copper wires. Control terminals shall be suitable

for connecting two wires, with 2.5sqmm stranded copper conductors. All terminals shall be numbered for ease of connections and identification. Each wire shall bear a ferrule or tag on each end for identification. At least 20% spare terminals shall be provided for control circuits.

The insulation of all circuits, except the low voltage electronic circuits shall withstand test voltage of 2KV AC for one minutes.

20. **Painting:** All sheet steel work shall be pre-treated, in tanks, in accordance with IS: 6005. Degreasing shall be done by alkaline cleaning. Rust and scale shall be removed by pickling with acid. After pickling, the parts shall be washed in running water. Then these shall be rinsed in slightly alkaline hot water and dried. the phospating surfaces shall be rinsed and pasivated prior to application of stoved lead oxide priper coating.
21. **Tests:** Battery chargers shall conform to all type tests as per relevant Indian standard. Performance test on the chargers as per specification shall also be carried out on each chargers as per specification. Following type tests shall be carried out for compliance of specification requirements:
  - a. Voltage regulations test.
  - b. Load limiter characteristics test.
  - c. Efficiency tests
  - d. High voltage tests.
  - e. Temp. rise test.
  - f. Short circuit test at no load and full load at rated voltage for sustained short circuit.
  - g. Degree of protection test.
  - h. Measurement of ripple by oscilloscope.
  - i. Temp. compensation feature demonstration.

The contractor may be required to demonstrate to the owner that the charger conform to the specification particularly regarding continuous rating, ripple free output, voltage regulation and load limiting characteristic. At the site following tests shall be carried out:

- a. Insulation resistance test.
- b. Checking of proper annunciation system operation.

If a charger fails to met the specified requirement, the contractor shall replace the same with appropriate charger without affecting the commissioning schedule of the substation, and without nay extra cost to the department.

The Contractor shall present for inspection, the type and routine test certificates for the following components whenever required by the department.

- a. Switches,
- b. Relays/MCCBs
- c. Instruments.
- d. DC fuses,
- e. SCR
- f. Diodes.
- g. Condensers.
- h. Potentiometers.
- i. Semiconductor
- j. Annunciator.
- k. Control wiring
- l. Push buttons and contactors.

Makes of above equipment shall be subject to owner's approval.

**Superintending Engineer**  
**400 K.V. SUB STATION O&M DIVISION VIRBHADRA, RISHIKESH**

**NOT FOR SALE/FOR WEB BASED TENDERING ONLY**

## POWER TRANSMISSION CORPORATION OF UTTARAKHAND LIMITED.

### GENERAL CONDITIONS & INSTRUCTION TO TENDERERS, WHICH SHOULD BE READ CAREFULLY PRIOR TO SUBMISSION OF TENDER AGAINST TENDER SPECIFICATION NO. T-35/SE/2012-13:

#### 1. Submission:

Sealed and separate tenders are invited in two parts bid system **Part-I (Techno-commercial bid, & Tender Form), and Part-II (Only Price Bid)** from reputed and experienced firms/contractors of Electric 'A' class valid license holder from Uttarakhand Government or equivalent authority for the following works. The tender documents shall be down loaded from our internet Website of [www.ptcul.org](http://www.ptcul.org).

Tender (Both Envelopes – Part-I & Part-II) should be kept in one Envelope which shall be received through Registered Post (with due acknowledgement) addressed to Superintending Engineer, 400 KV O&M Division, Virbhadra (Rishikesh) in the office **upto 3.00 PM on 06.03.2013**. The department shall not own any responsibility regarding the postal delay in the receipt of the tender. In case the due date of opening of the tenders happens to be a public holiday, the tenders shall be received and opened on the next working day at scheduled time without any further notice. The undersigned reserve the right to reject any or all tenders without assigning any reasons what so ever.

The Part-II of the tenders, belonging to only those tenders who qualify for the work on the basis of the documents supplied by them in Part-I, shall be opened publicly on due date. All other terms and conditions shall be as per tender documents.

#### 2. Earnest Money:

The tenderers are requested to furnish Tender Fee worth Rs.300.00 + 13.5% (VAT), Income Tax/Pan No. Certificate, Past Experience details, and the Earnest Money of Rs.5000.00 in the shape of FDR/CDR/TDR duly pledged in favour of Executive Engineer, 400 KV Sub Station – O&M Div., Virbhadra (Rishikesh). No firm shall be exempted from depositing of earnest money in any case. Part-II of the Tender shall not be opened, if the Tenderer fails to furnish the requisite amount of Earnest Money in the required shape and techno commercial papers, establishing his qualification in the part-I of tender. However opening of Part-II shall not insofacto mean that tenderer is qualified. Techno commercial papers will be examined in detail during evaluation of price bids. Award of supply/works will be considered to that tenderer who is lowest in rates as well as responsible to perform.

#### **Part-I & II shall contain the following:**

##### (A): **Part-I:**

Part-I of the tender shall contain the following which will be opened on **16.00 Hrs. of 07.03.2013**.

##### i): **Cost of tender document:**

Rs. 300.00 + 13.5% (VAT) In the form of Bank . . . .  
Draft in favour of Executive Engineer, 400 KV .  
O&M Division., Virbhadra Rishikesh payable at Rishikesh

##### ii): **Earnest Money:**

Rs. 5,000.00  
In the form of FDR/CDR/TDR duly pledged in favour of Executive Engineer, 400 KV O&M Div., Virbhadra (Rishikesh) Payable at Rishikesh. No Firm shall be exempted from depositing of earnest money in any case.

##### iii): **Experience Certificate:**

Issued by an Officer not below the rank of **Executive Engineer** mentioning agreement No. amount of work done, scheduled time of completion versus actual time of completion, quality of work and performance etc.

**iv): Pre-Qualification of Tenderer:** Only those bidders will be treated as qualified who have executed the similar nature of **work in any UPCL/PTCUL for the last 2 years & they are A-Class Electrical Contractor**. Bidders are requested to please give their past experience details in enclosed tender form Bidders who do not qualify under this class, their tender shall be rejected without assigning any reason.

**iv): EPF Registration:** If available;

**(B): Part-II:** Only those Tenders, which are found qualified on the opening of Part-I, will be opened on the due date i.e. **07.03.13 at 16.00 Hrs.**

3. In case, due date of opening of the tenders happens to be a Holiday, the tenders shall be received and opened on the next working day at the time stipulated above in Para-2.
4. The Tender Performa, attached, should be filled in clearly. The tenders received without this Proforma shall be liable to be rejected.
5. The rate will be valid for 3/6 months from the date of opening of the tenders. The tenderers must furnish the agreement of validity on non/judicial stamp paper worth Rs.10.00 duly affixed Rs.1.00 revenue stamp. Tenders without agreement of validity shall be rejected.
6. The Tenderers are required to fill up their rates in words as well as in figures. If there is any difference in quoted rates in words and figures. The rates mentioned in words shall be dictated and considered.
7. The tenderers are requested to furnish the registration number of UPST & CST and latest Income Tax Clearance Certificate in case of tenders execution of work/supply. In absence of above, the tenders shall be liable to be rejected.
8. The tenderers should invariably, submit the details of supply/work order for similar items/work executed by them in UPPCL/UPCL/PTCUL and other Government Department.
9. Conditional tenders shall not be entertained and will be rejected summarily.
10. The successful tender shall be required to furnish the performance guarantee @ 10% value of the order in the form of Bank Guarantee/CDR/FDR for faithful execution of the work/supply order.
11. Telegraphic offers shall not be entertained.
12. The undersigned reserves the right to divide the quantity of supply/work, between two or among more tenderers.
13. The tenders should be submitted in the Proforma prescribed and bids received without purchasing the tender documents shall not be considered.
14. Over-writing is not permissible. Any cutting in tender should be duly signed and stamped.
15. If the tenderer withdraw their offer within the validity period, the earnest money deposited by them shall be forfeited to PTCUL similarly if the tenderer made any alteration/modification in tender after its opening, the tenders will be rejected and the earnest money deposited shall be forfeited.

## **16. PERIOD OF CONTRACT:**

The work will be required to be completed within two Months duration of the date of Award of Supply/work.

**17. VARIATION CLAUSE:**

Variation +\_ 10% and payment shall be made as per actual measurement as per rate given in Price Schedule.

- 18. PAYMENT TERMS:** 90% payment shall be released after two calendar months after checked the successfully material and done the said work successfully and submission of bill which will be raised by the contractor. The balance 10% will be released after six month of calendar. In case, the contractor is interested to have 100% payment in this regard, he will have to submit 10% performance Guarantee in shape of BG/ FDR/CDR/TDR in favour of Executive Engineer(O&M), 400KV S/s Division Rishikesh which shall be released after the completion of the said duration.

**19. OTHER TERMS:**

All other terms & conditions will be applicable against Power Transmission Corporation of Uttarakhand Limited Form 'A/B':

**20. PENALTY CLAUSE :**

Penalty @ ½ % per week subject to maximum 10% .

**21. RESPONSIBILITY OF THE CONTRACTOR ;**

The contractor shall be responsible for the safety of his man and material, and also for the Corporation, Material at the time of working at site. Any damage caused to the Corporation's property during the course of work shall be recovered from Contractor's bill.

**22. CONTRACTOR EMPLOYEES AT SITE :**

The representative and workers of the contractor shall abide by all general rules and regulations of safety enforced at site from time to time and any special conditions affecting the local administrative. All the employees working on the corporation's land shall be deemed to be aware of dangers and risks, incidental to activities of the Corporation and contractor for any event of accident. The Contractor shall be entirely responsible and no compensation act and labour laws as far as they may affect the work.

- 23. FACILITY PROVIDED BY DEPARTMENT :** Electricity and water provided free of cost for said work by the department.

**24. JURISDICTION:**

All legal proceeding shall restrict upto jurisdiction of Hon'ble High Court of Nainital.

**25. ADMINISTRATIVE CONTROL:**

This work shall be supervised by the Assistant Engineer-(M) of this Division under the administrative control of the Executive Engineer / SE(O&M) 400KV S/S (O&M) Div., Rishikesh (Engineer of the Contract).

- 26.** However, the undersigned reserves the right to reject any or all the tenders without assigning any reason.

**Superintending Engineer  
400 KVS/S O&M DIVISION  
VIRBHADRA**

**TENDER FORM**

**TENDER SPECIFICATION NO. T- 35/SE / 2012 - 2013**

**From:-**

M/S.....

.....

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**To,**

Superintending Engineer  
400 KV Sub Station O&M Division,  
Power Transmission Corporation of Uttaranchal Ltd.,  
P.O. Virbhadra-249202  
Rishikesh (Dehradun) (INDIA).

**Sir,**

With reference to your invitation to the tender for the above, I/We here by offer to the Power Transmission Corporation of Uttarakhand Ltd.. the items in the schedule annexed or such portion there of as you may determine in strict accordance with the annexed terms and conditions of Contract, specifications and schedules to the entire satisfaction of Superintending Engineer, 400 KV Substation (O&M) Division Rishikesh and in default there of you have the right to pay to the Power Transmission Corporation of Uttaranchal Ltd. the sum of money mentioned in the said conditions.

A sum of Rs.....in the form of CDR/ FDR/TDR bearing SI No. ....dated.....of the Bank..... as Earnest money has been forwarded to the Executive Engineer, 400 KV Substation (O&M) Division Rishikesh duly pledged in his favour, the full value of which shall be retained by the Power Transmission Corporation of Uttaranchal Ltd. against the Security Deposit as earnest money specified of the said conditions of Contract.

I /We agree to abide by this tender for the period of three months from the date fixed for opening the same.

I /We hereby undertake and agree to execute the contract in the form annexed hereto in accordance with the conditions of the contract.

Yours faithfully,

Dated.....

Witness.....

Address.....

(SIGNATURE OF THE TENDERER  
IN FULL WITH FULL ADDRESS  
AND SEAL, IF ANY)

## TENDER PROFORMA

(The tender shall not be considered, if you fail to submit this Proforma duly filled up. Replies should be " REFER COVERING LETTER" etc. shall not be acceptable. However extra sheets may be attached if the space is not sufficient.)

1. Specification No. against which you have tendered:	<b><i>T-35/SE/2012-13</i></b>
2. Name & address of the tenderer.	
3. Bank Draft No.& date against which cost of tender specification was deposited.	
4. Amount and form in which Earnest Money has been deposited with Executive Engineer 400 KV O&M Division, Rishikesh. (FDR/TDR/CDR)	
5. Are you registered with the PTCUL/UPCL? If so, state the reference of letter of the Corporation vide which you were registered.	
6. Do you agree to all the conditions of the tender specification and if not, the tender specification's modifications, if any, which you would desire in these terms and conditions may be mentioned clearly (It may please be noted that it shall be entirely at the discretion of the Superintending Engineer, 400 KV O&M Division, Rishikesh to accept or reject the modifications proposed).	
7. Please state clearly (Answer in Yes/No) whether you would agree to execute the work in case the modifications suggested under Sl. No.5 are not accepted to the Corporation without imposing any further conditions from your side.	
8. Give two references who can certify your financial status and capability to undertake such work. One of the reference should be scheduled Bank of India.	
9. Have you confirmed that there is no typographically error/omission in your tender and all other documents forming part of the tender? (Answer Yes/No.).	
10. What is the validity period of your offer? State Clearly up to and in days/months.	

11. Have you submitted the list of work executed/supply details in the recent past?	
12. Please state clearly whether you are registered with sale tax, Income tax give their number.	
13. Do you confirm that the prices are firm in all respect? (Answer Yes/No)	
14. Have carried out similar work anywhere else in any power corporation or not. If yes give reference & performance report.	
15. Please confirm that your rates are Inclusive/Exclusive of excise duty.	
16. Please confirm that your rates are Inclusive/Exclusive of sales tax.	
17. Please confirm if you will claim any other Taxes will be charge extra or not. If yes the nature of taxes and rates mention clearly.	
18. Please Confirm whether your any relative is working in PTCUL/UPCL, etc. if Yes give Name, Designation & place of posting with your relationship.	

**SIGNATURE OF TENDERER WITH  
FULL ADDRESS & SEAL, IF ANY.**

M/S.....

**DETAILS OF EXPERIENCE**

(Details of order secured and executed by the Tenderer with particulars of work, order No. and name of office by whom the order were placed , should be given along with the amount of order and quantity on the following Proforma:-)

Sl. No.	Name and address of authority where worked/working.	Contract No. & date.	Particulars of work carried-out.	Remarks.
1	2	3	4	5

**SIGNATURE OF TENDERER**

(ON NON-JUDICIAL STAMP PAPER OF Rs. 10/- + Rs. 1/- revenue stamp).

**Tender invited by** : Superintending Engineer  
400 KV Sub Station O&M Division,  
Power Transmission Corporation of Uttarakhand Ltd.,  
P.O. Virbhadrabad-249202  
Rishikesh (Dehradun) (INDIA).

**Tender for** Procurement of 220Volt Battery Charger at400KV S/s  
Rishikesh.

**Tender Notice No.** : T-35/SE/2012-13

**Name of tenderer** : .....

**IN CONSIDERATION OF THE "POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD."** having treated the tenderer to be an eligible person whose tender may be considered, the tenderer (specify the full details).....

Hereby agree to the conditions that the offer in response to the above invitation shall not be with drawn up to THREE MONTHS from the date of opening of the tender up to .....and also to the conditions that if the tenderer with draw his proposal within the said period, the earnest money deposited by him may be forfeited to the "POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD." at the discretion of the later.

Signed this on .....day of .....2013

**Witness:**

1.....

2.....

Signed by

Tenderer

**BILL OF QUANTITY AND PRICE SCHEDULE OF  
TENDER SPECIFICATION NO. T-35/SE/12-13**

**Name of Work:** Procurement of 220 Volt Battery Charger at 400KV S/s Rishikesh.

Sl.	Description of Work	Qty.	Unit Rate	Amount(Rs.)
1.	220 Volt 50 Amp. DC, Thyristar Control heavy duty (suitable for Float & Boost) charger, for 110No. Cells of 2V each & capacity of 400 AH Battery Set, Auxiliary supply of battery charger is 415V $\pm$ 15% & 50HZ.	1 No.		
	<b>Total Amount</b>			

**(Superintending Engineer)  
400 K.V. O&M DIVISION  
VIRBHADRA (RISHIKESH)**