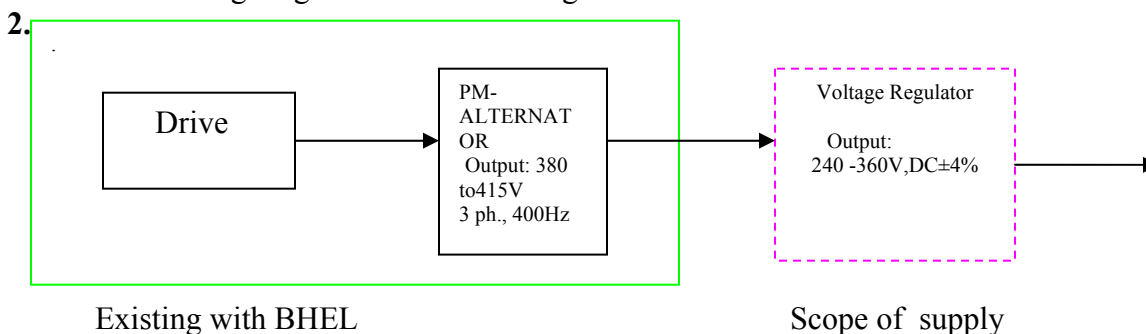


Revised Technical Specification of 200kW DC Voltage Regulator

1. Function: The function of the voltage regulators are to convert the variable three phase AC voltage & frequency derived from alternator to constant DC voltage for Industrial application. The input and output details of the voltage regulators with load is given below.



- | | |
|----------------------------|--|
| i) Rated Capacity | : 200kW |
| ii) Rated Voltage | : 240V DC |
| iii) Rated Current | : 834A DC(continuous duty) |
| iv) Voltage Regulation | : $\pm 4\%$ |
| v) Current limiting | : 1193A DC(1 hr.duty) |
| vi) Voltage setting Range | : 240 to 360V DC
(10% overvoltage should be possible) |
| vii) Current setting Range | : 756 to 1193A DC |

3.INPUT

- | | |
|---------------------|-----------------------------|
| i) Voltage Range | : 380V to 415V AC , 3 phase |
| ii) Frequency Range | : 400Hz $\pm 2.5\%$ |

4.Safety features:

- | | |
|---------------------------|----------------------|
| Over voltage trip at | : $\geq 400V$, |
| Under voltage trip | : $< 210V$ |
| Over Current Trip at | : $\geq 1193A$, |
| Input single phasing trip | : should be provided |

5. Operating Condition

The voltage regulator will be tested and used in BHEL Laboratory.

6. Supplier is requested to give dimension and weight.

7. Voltage Regulator should carry a warrantee for a period of 1 year, against any manufacturing defect.

8.SPARES ITEM:

The supplier should able to supply spares for at least for a minimum period of 5 years after expiry of one year warrantee for reliable operation of the controller. Cost of the recommended spares after 1 year of warranty should also be mentioned.

For any technical clarifications, please contact :

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