RECTIFIER CUM ACCUMULATOR FOR A VEHICLES UNDER MAKE II PROJECTS

1. Proposal. Provision of Rectifier Cum Accumulator for starting of tks & ICVs dply at HAA. The Rectifier Cum Accumulator for A Vehs is required at HAA to preserve the equipment without compromising the training and maintenance the op-readiness of units.

2. Op Emp.

 (a) Armd Regiments and Mechanised Infantry Battalions deploy at HAA are required to carryout regiment starting of tanks and ICVs as a preventive measure in extreme low temp.

 (b) To preserve the battery power, there is a requirement of Rectifier Cum Accumulator for HAA to assist starting procedure of A vehicles without using vehicle main battery.

3. Op Requirement.

 (a) The system should cater for transfer the AC mains voltage to a suitable level and store/ accumulative the DC charge. The system should be capable of being charged by both generators and solar power.

 (b) It should store/ accumulate the charge to facilitate minimum 30-40 starting of T-72 tks/ ICVs (10 Tks/ ICVs @ 3-4 starting procedure per night) and will hence require high capacity accumulator. The rectifier/ accumulator should provide DC output of 48V & 24V with a provision of selecting output voltage.

 (i) Tk- T-72 - 48V

 (ii) ICV/ BMP - 24 V

 (c) The Li-ion battery as power bank to facilitate trickle charge during the charging procedure.

 (d) Display unit to indicate charging/ full charging as also discharging and low power of the battery bank/ charge accumulator.

 (e) The equipment should be heavy duty and rugged, capable to be used in all weather conditions particularly in HAA/ SHAA.

4. Likely Quantity & Cost.

 (a) Scaling. 10 per Armd Regiment & Mechanised Infantry battalion deployed at HAA. Two each for (I) Armd Sqn , Engr Sqn & HQ Sqn.

 (b) Total Quantity. 110.

 (c) Cost. 10-12 lakhs/ Rectifier cum charge Accumulator.

5. Broad Timelines. To be made available in earliest time frame/ Less than 1 year.