**FUEL CELL BASED BTY CHARGER**

1. **Op Necessity**. Bty chargers are reqd by all units of IA for various purposes to incl charging of RS, electronic eqpt etc. Performance of generators is affected by altitude and temp conditions.Also, they are bulky, noisy and one generator can produce a single voltage output. In comparison to the generator, output of Fuel Cell is marginally affected by altitude, temp conditions and the same can be dply in difficult areas without loss of performance. They are silent, produce clean energy and are very efficient. One fuel cell can provide varied voltage output for charging different eqpt. Fuel cells are a niche tech presently being developed by many companies for varied purposes. These would be especially useful for ops and for units in HAA.

2. **Broad Tech Specification**.

(a) Should be able to generate suitable voltage for charging of various types of RS/ Electronic eqpt.

(b) Should be able to perform in all trn, climatic conditions and temp ranging from -200 C to +450C.

3. **Quantity**. To be determined later as reqmt of the charger will be pan IA for various eqpts. In phase I approximately 930 system would be reqd for the Northern borders at one per CO / BC /OP.

4. **Time Lines**. To be determined post interaction with vendors.