**For each round{**

Calculate the energy spent in each round Er.

Calculate Estimated total energy Et=Et–Er.

Calculate Estimated average energy Ea.

* **Cluster Head Election**

**For each node{**

If (BS inside work field){ // BSdistance<=dth

If (Ea>0 && (s(i).G<=0))

Select random number rand

If(rand<T(s) && node’s energy >­­­­­­ average energy)

Elect node as Cluster Head

}

Else { //BS outside work field

If (Ea>0 && (s(i).G<=0)){

Select random number rand

If(rand<T(s)){

Elect node as Cluster Head

}

}

**} //end for each node**

* **Joining clusters**

If(node is normal){ //not CH

Join nearest cluster

}

* **CH assignment**

If(node is CH){

Aggregate data then send it to BS

}

* **Normal node assignment**

If(node is normal){ //not CH

Send data to CH

}

**} //**end rounds