**ALGORITHM 1:Calculation of Reputation**

STEP 1: Read sending packet, receiving packet, timestamp\_sending packet, timestamp\_receiving packet, Ratio of sending and receiving packet (RRS), THRESHOLD\_RRS, Packet\_dropping\_threshold, time\_difference between sending and receiving time stamp value, time\_threshold, node

STEP 2: Count total no. of sending packet (NS), total no. of receiving packet (NR)

STEP 3: Calculate Ratio of sending and receiving packet (RRS)=NS/NR

STEP 4: If RRS>THRESHOLD\_RRS

STEP 5: Node is good cooperative and granted for the step 9

STEP 6: Else if RRS ≈ RRS

STEP 7: Node is Medium cooperative and granted for the step 9

STEP 8: Else node is non-cooperative and discarded

STEP 9: Calculate (NS-NR)

STEP 10: IF (NR-NS)<Packet\_dropping\_threshold

STEP 11: Node is good Cooperative and granted for the step15

STEP 12: Else if (NR-NS) ≈ Packet dropping threshold

STEP 13: Node is Medium cooperative and granted for the step 15

STEP 14: Else node is less cooperative

STEP 15: Calculate time\_difference between sending and receiving time stamp value

STEP 16: If time\_difference <time\_threshold

STEP 17: Node is best cooperative node

STEP 18: Else if time\_difference ≈ time\_threshold

STEP 19: Node is Medium cooperative

STEP 20: Else node is less cooperative

**Algoritm-2**

STEP-1 : Read availability of neighbour node, Time stamp limit, storage area, energy consumption ,checker, sending node, receiving node(RN), buffer, residual energy of sending node,residual energy of receiving node.

STEP-2: check CTS & RTS –If there is no problem then go to step-3.

STEP-3: If node SNi sends a message to node RNj. check the availability of receiver node’s buffer. check the residual energy of receiver and sender node.

STEP-4: Then node SNi store a copy of a message that it will send to node RNj.

STEP-5: If the checker does not get any mismatch in message in the buffer through message ID of SNi and RNj then go to step-6 else go to step-8.

STEP-6: Checker will also check that If the message has been transferred with in MAX time limit. If YES then go to step-7 else go to step-8.

STEP-7: Compare the energy consumption of any transaction with the next transaction that has lesser value of energy consumption and that will be entertained as better consumption. If the value of energy consumption is better than go to step-8 else go to step-9.

STEP-8: Transaction failure.

STEP-9: Transaction is good in performance.