The bullock energy can be used in rotary mode set up for post-harvest operations like Seed cleaning and Grading, chaff cutting, daal mill operations, flour milling, Spice Grinding, threshing, cotton ginning, briquetting and other stationery operations. The proposed research work presents the performance evaluation of seed cleaner cum grader unit. The draft requirement varied in the range 470.4 N to 450.8 N with the mean draft as 437.7 N which was 5.14 % of weight of the paired bullocks. The pulse rate as usual decreased with duration the mean respiration rate, for bullock B1 and B2 was 24 and 25.75 bpm, 56.75 and 55.25 bpm with the body temperature as 38 and 37.9oC at rpm of bullocks were 68 to 62 respectively. The mean rpm of the seed cleaner cum grader shaft was observed to be 320. The output of machine gradually decreased with duration may be due to decrease in the speed of shaft of the seed cleaner cum grader. The mean output 683.3 kg/h as with an electric motor was 760 kg/h. The mean power output was 0.545 kW. The operation of seed cleaner cum grader was found to be feasible considering the draft ability of Red Kandhari type bullocks. The total cost of operation of unit was calculated Rs. 87.9/h with an output capacity of grader observed 0.5 hp.

**Keywords:** Seed cleaning cum Grading, Red Kandhari bullock, draft, pulse rate, rotary mode agro processing unit.