

RKB30 AUTOMATIC FRK BLENDER- Solution For Weighing Blending Bagging

Rice is cultivated in many parts of the world, as it grows in diverse climates, Fortifying Rice makes it more nutritious by adding vitamins and minerals in the post-harvest phase. Rice fortification may be considered as having the highest potential to fill the gap in current staple food fortification programs as it is the staple food of 65 percent of the Indian population and reaches the most vulnerable.

The core elements for the production of fortified rice are the Fortified Rice Kernels and their blending with regular rice in a recommended ratio. Fortified Rice Kernel (FRK) is a reconstituted rice grain made from rice flour, vitamins, and minerals using hot extrusion technology or coated rice kernels. FRK is a reconstituted rice grain made from rice flour, vitamins, and minerals. Rice flour, vitamins, and minerals that form the raw material for producing FRK along with specified additives are blended/ mixed in appropriate proportions and the mixture is hydrated (using water treated by Reverse Osmosis process) for getting prescribed moisture content.

As per the researcher's study, which is demonstrating that consumption of fortified Rice is safe and effective in women and children and can significantly address hemoglobin status, iron deficiencyemia, iron deficiency (i.e., ferritin levels), and improve the status of other critical micronutrients including vitamin A, zinc, folic acid, vitamin B12. It is also known to improve cognition and physical performance. Many more studies also support the acceptability of fortified Rice.

Fortified Rice could be delivered through the social safety nets of the Government namely the Targeted Public Distribution System, the Mid-day meal scheme as well as the Integrated Child Development Services (ICDS) along with open market channels.

The fortification of rice in the PDS



Features:

- HMI display to set the required blending percentage & mixing time
- Efficient Ribbon Mixer mixes the product till complete homogeneity is achieved.
- Simple Calibration process
- Machine can store processing data on pendrive also.
- Complete Automatic Machine
- Easy operation and maintenance

supply chain at the district level by State Governments has been found to be the most feasible approach for the distribution of fortified rice through PDS. Under this approach, fortification of rice will be done at the milling stage, both in DCP and Non-DCP States. This will enable the District Collectors and other authorities to visit the mills more frequently to ensure better implementation and quality control. Further, it would be easier to track the source of fortified rice with appropriate markings when the fortification is undertaken at the milling stage. For purposes of systemic efficiencies and cost-effectiveness, the blending of the fortified rice kernels with the rice will take place as a continuous process during the rice milling stage.

With the highest uptake in the government safety net programmers' food

and civil supplies department of each state impanels a number of Rice millers in each district for regular supply of Rice to the FCI, from which it is distributed to the social safety net schemes.

Rice mills will be used for fortification at source, Rice millers will invest towards up-gradation of existing milling line for performing blending and fortification operations, paddy will be supplied to rice millers by State Civil Supplies Departments or designated agencies for custom milling. Custom milled rice will be fortified by rice millers. Paddy will be converted to rice and blending operations will be carried out immediately after it at the rice mill itself using a blending machine. FRK and CMR will be mixed in a recommended ratio by rice millers, Rice millers will get incremental cost of rice fortification for the total quantum of fortified rice produced from State Civil Supplies Departments They will be responsible for maintaining the quality of fortified rice and packing of fortified rice, QA/QC should be done at the rice mills through blending efficiency counts - for which the millers and their staff should be trained. Rice millers will be the key stakeholders in this whole initiative and will drive this initiative, to maintain & promote the quality of fortified rice supplied.

Sona's Research & development & design team has come up with a new advanced & technology-driven fortified Rice kernel blending machine RKB30.

- Weighing, blending and bagging can be achieved in single station.
- Technology to Blend Fortified Rice Kernel to rice in an accurate homogenous & cost-effective way.
- Eliminates usage of multiple elevators and packing machine thus making it very efficient and economical.
- Packing upto 25 and 50kg/bag

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