



भारतीय चावल अनुसंधान संस्थान  
राजेंद्रनगर, हैदराबाद-५०० ०३०  
**ICAR-Indian Institute of Rice Research**  
(formerly Directorate of Rice Research)  
(Indian Council of Agricultural Research)



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**Dr P. Ananda Kumar**

Director (Acting)

DO/PD/ P MEC 780/RTI /2017  
18<sup>th</sup> September, 2017.

Dear Sir,

**Sub: "RTI-Information Rice moisture content and weight loss in Rice" -  
Regarding.**

\* \* \*

With reference to your mail dated 6<sup>th</sup> September, 2017 on the above subject,  
Please find enclosed the required information.

Yours sincerely

**P. Ananda Kumar**

To,

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# **ICAR-India Institute of Rice Research**

**Rajendranagar, Hyderabad**

**1. What is the Relation between Moisture loss of Rice and Weight Loss of Rice.**

Rice (Paddy) moisture content and Rice (Paddy) weight are directly proportional. Hence any loss in moisture in paddy reduces its weight.

**2. Does the Moisture of Rice increase in the month of harvest of Rice?**

The moisture content of rice (paddy grain) is maximum during its milk stage and reduces slowly during grain hardening. Rice/ Paddy is usually harvested at grain moisture content between 24 to 26%. It normally takes 25-30 days from flowering to harvesting.

**3. Does the Weight of Rice increase with the increase of Moisture?**

Yes, the weight of rice/ paddy increases with increase in moisture. However, for storage of grain for 1 year the harvested paddy has to be dried to 12-14% moisture and for long term storage 8-9% moisture content has to be maintained. High moisture content causes yellowing and discoloration due to fungal development and mold growth thereby reducing its market value. High moisture in storage paddy increases the temperature due to grain respiration and reduces its vigour and viability.

**4. What is the result of research conducted by ICAR in food Corporation of India depots for the study of loss in rice with the loss of Moisture?**

ICAR-IIRR has not taken up any such research activity in FCI depots.