

## **GRAIN & MALT QUALITY STANDARDS IN INDIA**

No.	Parameter	2-row	6-row
<b>BARLEY GRAIN</b>			
1	Moisture (%)	<12.0	<12.0
2	Hectolitre Weight (kg/hl)	> 65.0	> 60.0
3	Kernel Size on 2.5 mm	Uniform plump >90%	Uniform plump >80%
	Through 2.2 mm	<3%	<5%
4	1000 grain weight(g)	42-45	>40
5	Husk Content	<11.0%	<11%
6	Protein Content(d.b.)	9.0-12.0%	9.0-12.0%
7	Germination Capacity	>96%	>96%
8	Germination Energy (72hrs)	>96%	>96%
9	Beta-glucan	<4.0%	<4.0%
<b>MALT</b>			
1	Malt Homogeneity	>90%	>90%
2	Malt Friability	>65%	>60%
3	Total Protein (d.b.)		
	Soluble Protein S/T/Ratio	4-5 % 40-44%	4-5 % 40-44%
4	Malt Extract (minimum)	80%	78%
5	Wort Viscosity	<1.5 mPas	<1.5 mPas
6	Wort turbidity	Clear	Clear
7	Diastatic Power( <sup>0</sup> L)	>90	>90
8	Wort Beta-glucan	<200 ppm	<200 ppm
9	FAN (Free amino nitrogen)	>150 ppm	>150ppm

\* Finalized in first meeting of the "NATIONAL CORE GROUP ON MALT BARLEY DEVELOPMENT" at DWR, Karnal on 12 Dec., 1995 and revised during the annual workshop at IARI, New Delhi in August 2004 and further on 05.03.2016 at ICAR-IWBR, Karnal.