

**Laboratory** MFPI-Quality Control Laboratory, EEI Campus, Professor Jayashankar Telangana State Agricultural University, Rajendra Nagar, Hyderabad, Telangana

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-6135 (in lieu of T-3613)

**Page 1 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Cereals, Pulses &amp; Cereal Products</b>			
<b>a.</b>	<b>Rice (Raw &amp; Milled)</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 0.7 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	5.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100 g to 20.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.2 g/100g to 4.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.05 g/100g to 3.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
		Iron	AOAC (20 <sup>th</sup> Edition) 953.01, 2015.01	10.0 mg/kg to 1000 mg/kg
		Zinc	AOAC (20 <sup>th</sup> Edition) 985.01, 2015.01	10.0 mg/kg to 1000 mg/kg
<b>b.</b>	<b>Rice (Parboiled &amp; Milled)</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 7.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	5 g /100g to 18 g /100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 20.0 g/100g

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**Page 2 of 8**

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		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.2 g/100g to 4.0 g/100g
		Crude Fibre	AOAC(20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.05 g/100g to 5.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
<b>c.</b>	<b>Rice Flakes</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 to7.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	5.0 to18.0 /100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 20.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.2 g/100g to 4.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.05 g/100g to 5.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
<b>d.</b>	<b>Wheat Flour (Whole)</b>	Total ash	IS 1155:1968 (RA 2010)	0. 5 g/100g to 5.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to18.0 g /100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	6.0 g/100g to 20.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 6.0 g/100g

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**Certificate Number** TC-6135 (in lieu of T-3613)

**Page 3 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

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		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
		Iron	AOAC (20 <sup>th</sup> Edition) 953.01, 2015.01	10.0 mg/kg to 1000 mg/kg
		Zinc	AOAC (20 <sup>th</sup> Edition) 985.01, 2015.01	10.0 mg/kg to 1000 mg/kg
<b>e.</b>	<b>Refined Wheat Flour (Maida)</b>	Total ash	IS 1155:1968 (RA 2010)	0. 2 g/100g to 2.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g /100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	6.0 g/100g to 20.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.2 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 6.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
<b>f.</b>	<b>Wheat Semolina (Suji)</b>	Total ash	IS 1155:1968 (RA 2010)	0.1 g/100g to 5.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	6.0 g/100g to 20.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.3 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 6.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g

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**Certificate Number** TC-6135 (in lieu of T-3613)

**Page 4 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

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g.	<b>Maize (Whole Dry)</b>	Total ash	IS 1155:1968 (RA 2010)	0.5 g/100g to 5.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 40.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
h.	<b>Sorghum (Whole Jowar)</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	5.0 g/100g to 30.0g /100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 30.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 8.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
i.	<b>Dehulled Sorghum</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 30.0 g/100g

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**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-6135 (in lieu of T-3613)

**Page 5 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

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		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 8.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
<b>j.</b>	<b>Pearl Millet (Whole Bajra)</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 30.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
<b>k.</b>	<b>Dehulled Pearl Millet</b>	Total ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 30.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 10.0 g/100g

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**Page 6 of 8**

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**Last Amended on --**

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		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
I.	Finger Millet (Whole Ragi)	Ash	IS 1155:1968 (RA 2010)	0.2 g/100g to 10.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 30.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	10 g/100g to 95 g/100g
m.	Redgram (dhal)	Total ash	IS 1155:1968 (RA 2010)	1.0 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23-Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 50.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 8.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	5 g/100g to 70 g/100g
		Iron	AOAC (20 <sup>th</sup> Edition) 953.01, 2015.01	10.0 mg/kg to 1000 mg/kg
		Zinc	AOAC (20 <sup>th</sup> Edition) 985.01, 2015.01	10.0 mg/kg to 1000 mg/kg

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**Page 7 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

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<b>n.</b>	<b>Greengram (dhal)</b>	Total ash	IS 1155:1968 (RA 2010)	1.0 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23- Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 50.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 8.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	5 g/100g to 70 g/100g
<b>o.</b>	<b>Blackgram (dhal)</b>	Total ash	IS 1155:1968 (RA 2010)	1.0 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23- Combustion method (Leco F-528 Nitrogen Analyzer)	5.0 g/100g to 50.0 g/100g
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 5.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Carbohydrates	IS 1656:2007 RA 2012	5 g/100g to 70 g/100g
<b>p.</b>	<b>Bengalgram (dhal)</b>	Total ash	IS 1155:1968 (RA 2010)	1.0 g/100g to 8.0 g/100g
		Moisture	IS 1155:1968 (RA 2010) IS 4333-2:2002 (RA 2012)	6.0 g/100g to 18.0 g/100g
		Protein	AOAC (20 <sup>th</sup> Edition) 992.23- Combustion method (Leco	5.0 g/100g to 50.0 g/100g

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**Page 8 of 8**

**Validity** 14.10.2017 to 13.10.2019

**Last Amended on --**

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			F-528 Nitrogen Analyzer)	
		Fat	AOAC (20 <sup>th</sup> Edition) 2003.06 (Gerhardt Soxtherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Crude Fibre	AOAC (20 <sup>th</sup> Edition) 962.09 (Gerhardt Fibretherm Analyzer)	0.5 g/100g to 10.0 g/100g
		Carbohydrates	IS 1656:2007 (RA 2012)	5 g/100g to 70 g/100g
		Iron	AOAC (20 <sup>th</sup> Edition) 953.01, 2015.01	10.0 mg/kg to 1000 mg/kg
		Zinc	AOAC (20 <sup>th</sup> Edition) 985.01, 2015.01	10.0 mg/kg to 1000 mg/kg