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MATERIAL SPECIFICATIONS & TEST METHODS OF CATTLE FEED RAW MATERIAL

DOCUMENT NO.: GTC/CFP/0022/28/060626

PURCHASE DEPARTMENT (CATTLE FEED)

MEHSANA DISTRICT CO-OPERATIVE MILK PRODUCERS' UNION LIMITED

Dudhsagar Dairy, Highway, Mehsana – 384002 Phone: 02762-253201

Fax: 02762-253201

www.dudhsagardairy.coop/tender



MEHSANA DISTRICT CO-OPERATIVE MILK PRODUCERS' UNION LIMITED
Material Specifications and Test Methods of Cattle Feed Raw Material and Other Items
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Version Update

Date	Update Details
24/03/2025	Revised DDGS Maize Specification (4.2.7) and added DDGS Rice specification (4.2.45)
14/04/2025	Average corrected weight in A Twill Gunny Bag
20/06/2025	Revised RP Fine Specifications
25/05/2026	Added specifications of Puwad Chuni and removed specifications of material we are not buying currently
06/06/2026	Added specification palm oil, tosted soya flour and socdium bi-carbonate



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4.0 Technical Specifications of Cattle Feed Raw Materials

4.1 Material Acceptance Criteria

When the materials (consignment) will reach our cattle feed plant, the physical conditions and in case of packaging materials, cleanliness will be thoroughly checked by the Store Personnel along with Personnel of the respective department; it is chiefly Quality Assurance.

Later, the physical quality parameters will be primarily checked by the quality assurance personnel (Sampler & if, required; Head of the Department) before accepting the material & then, only; it will be allowed for unloading at our inventory.

If; the parameters will not meet the requirements (Physically), the materials will be strictly rejected &/or may be accepted as a whole or partially in a special circumstance considering the significance and variability of quality parameters & with only, kind approval of I/C Managing Director.

Also, the material already unloaded at our inventory, if; found inferior in quality when tested chemically, the material (consignment) will be rejected & the supplier will have to lift-up the rejected material (consignment) at earliest i.e. within 15 days period of time.

Note: Penalty or rebate will be calculated as per increase / decrease per % from guarantee % on pro-rate basis.



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4.2 Material Specifications & Premium/Rebate Calculation Sheet

4.2.1 Material Name: Rapeseed Extraction (38%)

SAP Code: CFEE000478

Specification: Rapeseed Extraction (38%)

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 38.00	Down to 34.00	%
Fiber	Max. 12.00	Up to 15.00	%
Silica	Max. 2.00	Up to 4.00	%

Premium/Rebate Calculation: Rapeseed Extraction (38%)

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2
Moisture	10.00 (Max)	12.00	1.00		
Protein	38.00 (Min)	36.00	2.50	34.00	3.00
Fiber	12.00 (Max)	15.00	1.00		
Silica	2.00 (Max)	3.00	1.00	4.00	3.00

Premium/Rebate Calculation: Rapeseed Extraction (38%)

Quality Parameter	Guarantee (%)	Down to	Premium 1	Down to	Premium 2
Silica	2.00 (Max)	1.00	0.50	0.50	1.00

Sampling Process: Rapeseed Extraction (38%)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40-50 Bags	1000 g



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4.2.2 Material Name: Maize

SAP Code: CFEE000480

Specification: Maize

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 16.00	%
Infestation	Max. 5.00	Up to 25.00	%
Dust	Max. 1.00	Up to 3.00	%
Blakish Grains/ Pest Damaged Grains/ Immature Grains	5.00 (Max.)		%

Premium/Rebate Calculation: Maize

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max)	12.00	1.00	14.00	2.00	16.00	3.00
Infestation	5.00 (Max)	10.00	1.00	20.00	2.00	25.00	3.00
Dust	1.00 (Max)	2.00	1.00	3.00	2.00		

Sampling Process: Maize

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 Bags	1000 g



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4.2.3 Material Name: Rice Polish Fine 18%

SAP Code: CFEEED000476

Specification of R P FINE 18 % RAW TYPE:

1. Quality Standards and Specifications

Parameters of R P FINE 18 % RAW TYPE for trading:

Moisture	10%	(Max.)
Fat	18%	(Min.)
Silica	2%	(Max.)
Crude Protein	13%	(Min.)
Crude Fibre	11%	(Max.)

Minor deviation to the above parameters is acceptable as per the following Rebate.

2. Rebate Schedule

2.1 For increase in moisture, the following rebate is applicable:

- ☐ 1% for up to 12% of moisture
- ☐ 2% for 12.01% to 14% of moisture
- ☐ Goods having more than 14% of moisture rejected.

2.2 For decrease in Fat, the following rebate is applicable:

- ☐ 6% for 16.01 to 18% of Fat
- ☐ 7% for 14.00 to 16% of Fat
- ☐ Goods having less than 14 % of Fat rejected.

2.3 For increase in silica, the following rebate is applicable:

- ☐ 1% for 2.01 to 3.0% of silica
- ☐ 2% for 3.01 to 5.0% of silica
- ☐ Goods having more than 5 % of silica rejected.

2.4 For decrease in Crude Protein, the following rebate is applicable:

- ☐ 0.50% for 12.51 to 13.0% of Protein
- ☐ 0.50% for 12.00 to 12.50% of Protein
- ☐ Goods having less than 12 % of Protein rejected.

2.5 For increase in Crude Fibre, the following rebate is applicable:

- ☐ 0.50% for 11.01 to 12.0% of Fibre



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- ☐ 1% for 12.01 to 13.0% of Fibre
- ☐ 2% for 13.01 to 14.0% of Fibre
- ☐ 3% for 14.01 to 15.0% of Fibre
- ☐ Goods having more than 15 % of Fibre rejected.

Goods having below 14 % Fat, below 12 % Protein, above 15 % Fibre, above 5 % silica and above 14 % moisture contents subject to our union decision (May be accepted with proportionate rebate).

Note: No Premium Shall Be Paid and All Rebates are On Cumulative Basis.

4. Physical Characteristics:

- 4.1 Physically the material must be Raw type Rice Bran, must be Fine, natural color and should not be any off smell in the supplied product.
- 4.2 Goods should be free from husk, impurities, adulterants, insects, fungus, infestation, rancidity & undesirable & objectionable odour.
- 4.3 It should also be free from dirt and extraneous matter including iron and metallic pieces.
- 4.4 If Supplier try to mischief in supply of material like high husk, old rancid material and different quality of Material in same consignment then penalty shall be applicable as per union norms.

Premium/Rebate Calculation: R P Fine

Quality parameter	Guarantee (%)	Down to	Rebate 1	Down to	Rebate 2	Down to	Rebate 3	Down to	Rebate 4
Moisture	10% max	12.0%	1	12.01 to 14.0%	2				
Fat	18% min	16.01 to 18.0%	6	14.00 to 16.0%	7				
Silica	2% max	2.01 to 3.0%	1	3.01 to 5.0%	2				
Crude Protein	13% min	12.51 to 13.0%	0.50	12.00 to 12.50%	0.50				
Crude Fibre	11% max	11.01 to 12.0%	0.50	12.01 to 13.00%	1.00	13.01 to 14.0%	2.00	14.01 to 15.0%	3.00



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4.2.4 Material Name: DORB 13 % (DE-OILED RICE BRAN)

SAP Code: CFEEED000475

Updated Specification of DE-OILED RICE BRAN:

1. Quality Standards and Specifications

Parameters of DE-OILED RICE BRAN for trading:

Protein	15 %	(Min.)
Moisture	10 %	(Max.)
Fiber	13 %	(Max.)
Silica	3 %	(Max.)

Minor deviation to the above parameters is acceptable as per the following Rebate/
Premium.

2. Premium Schedule

2.1 For decrease in Silica, the following Premium is applicable

- 1.0 % for 2.0 to 1.0 % of Silica

3. Rebate Schedule (All rebates are on cumulative basis)

3.1 For decrease in Protein, the following rebate is applicable:

- 2 % for 13 to 15% of Protein
- 4 % for 11 to 13 % of Protein
- Goods having less than 11 % of protein rejected

3.2 For increase in moisture, the following rebate is applicable:

- 1% for 10 to 12% of moisture
- 2 % for 12 % to 14% of moisture
- Goods having more than 14% of moisture rejected.

3.3 For increase in Fiber, the following rebate is applicable:

- 1% for 13 to 15 % of Fiber
- 2% for 15 to 16 % of Fiber
- 4% for 16 to 17 % of Fiber
- Goods having more than 17 % of Fiber rejected.

3.4 For increase in Silica, the following rebate is applicable:

- 1 % for 3 to 4 % of silica
- 2 % for 4 to 5 % of silica



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- Goods having more than 5 % of silica rejected.

Note: All Rebates are On Cumulative Basis.

4. Physical Characteristics:

- 4.1 Rice husk/Huller husk should be Max. 30 % acceptable.
- 4.2 Physically the material must be DORB and should not be any off smell in the supplied product.
- 4.3 Goods should be free from impurities, adulterants, insects, fungus, infestation, Rancidity & undesirable & objectionable odors.
- 4.4 It should also be free from dirt and extraneous matter including iron and metallic pieces.
- 4.5 If Supplier try to mischief in supply of material like high husk, old rancid material and different quality of Material in same consignment then penalty shall be applicable as per union norms.

Premium structure:

Quality parameter	Guarantee (%)	Down to	Premium 1	Down to	Premium 2
Silica	3% Max.	2	0	1	1

Rebate structure:

Quality parameter	Guarantee (%)	Down to	Rebate 1	Down to	Rebate 2	Down to	Rebate 3
Protein	15% Min	13%	2	11%	4		
Moisture	10% max	12%	1	14%	2		
Fiber	13% max	15%	1	16%	2	17%	4
Silica	3% Max.	4%	1	5%	2		
Rice Husk / Huller Husk	30% Max.	Pass through IS certified Sieve 0.6 mm					

5. Packaging

- Packaging shall be in sound second hand gunny/HDPE/PP bags. Tare weight of empty HDPE/PP bags will be considered as minimum 200 gms while empty gunny bags will be considered as minimum 1 kg. If the packing is not found in agreement with these norms, the buyer can impose rebate as per the Rebate schedule.
- All information should be as per standards of Weights & Measures Act, 1976 & the Standards of Weights & Measures (Packaged Commodities) Rules, 1977 and Food Safety & Standards Act, 2006 and Regulations thereunder.

Goods should be packed in sound / second hand gunny bags, if found any damaged/teared bag used to packing the material, we will deduct gunny Bag/PP bag amount as per union norms.



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4.2.5 Material Name: Cofeed- Corn Gluten Feed (CGF)

SAP Code: CFEEED000171

Specification: Cofeed- Corn Gluten Feed (CGF)

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 19.00	Down to 16.00	%
Fiber	Max. 12.00	Up to 15.00	%
Silica	Max. 1.00	Up to 02.50	%

Premium/Rebate Calculation: Cofeed- Corn Gluten Feed (CGF)

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max. 10.00	12.00	1.00				
Protein	Min. 19.00	18.00	1.00	16.00	2.00		
Fiber	Max. 12.00	13.00	1.00	15.00	2.00		
Silica	Max. 1.00	2.50	2.00				

Sampling Process: Cofeed- Corn Gluten Feed (CGF)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.6 Material Name: Guar Meal (55%) Guar Korma (55%)

SAP Code: CFEEED000479

Specification: Guar Meal (55%) Guar Korma (55%)

Test	Specification	Max./Min. Rebate Limits	Unit
O+A	Min. 55.00	Down to 49.00	%
Moisture	Max. 10.00	Up to 12.00	%
Fiber	Max. 6.00	Upto10.00	%
Silica	Max. 1.00	Up to 2.50	%

Premium/Rebate Calculation: Guar Meal (55%) Guar Korma (55%)

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max.)	12.00	1.00				
O + A	55.00 (Min.)	53.00	2.00	51.00	3.00	49.00	4.00
Fiber	6.00 (Max.)	8.00	1.00	10.00	2.00		
Silica	1.00 (Max.)	2.00	2.00	2.50	4.00		

Sampling Process: Guar Meal (55%) Guar Korma (55%)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 Bags	1000 g



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4.2.7 Material Name: Maize DDGS

SAP Code: CFEED000495

Specification: DDGS Maize

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 30.00	Down to 27.00	%
Oil	Min. 07.00	Down to 06.00	%
Oil + Protein	Min. 37.00	Down to 33.00	%
Fibre	Max. 10.00	Up to 13.00	%
Silica	Max. 1.00	Up to 2.50	%
Aflatoxin B1	Max 50		ppb

Premium/Rebate Calculation:

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
O + A	Min. 37.00	36.00	1.00	35.00	2.00	33.00	4.00
Fibre	Max. 10.00	11.00	1.00	12.00	2.00	13.00	3.00
Silica	Max. 1.00	2.00	1.00	2.50	2.00		

Sampling Process:

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Blackish, overheated and objectionable odour contain material should be rejected.
3. Material should preferably be packed & supplied in sound bags.
4. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
5. Weighment, sampling and analysis will be done at our factory.



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4.2.8 Material Name: By Pass Fat Feed Supplement (84%)

SAP Code: CFEEED000085

Specification: By Pass Fat Feed Supplement (84%)

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 05.00	Up to 06.00	%
Fat	Min. 84.00	Down to 80.00	%
Calcium	Min. 08.00	Down to 06.00	%

Premium/Rebate Calculation: By Pass Fat Feed Supplement (84%)

Quality Parameter	Guarantee (%)	up to/down to	Rebate 1	up to/down to	Rebate 2	up to/down to	Rebate 3	up to/down to	Premium
Moisture	05.00 (Max)	6.0	1.00						
Fat	84.00 (Min)	82.0	1.00	80.00	2.00				
Calcium	08.00 (Max)	6.0	1.00						

Sampling Process: By Pass Fat Feed Supplement (84%)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40-50% Bags	1000 g



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4.2.9 Material Name: Cotton Seed Extraction (40%)

SAP Code: CFEE000477

Specification: Cotton Seed Extraction (40%)

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 40.00	Down to 36.00	%
Fiber	Max. 14.00	Up to 16.00	%
Silica	Max. 2.00	Up to 4.00	%

Premium/Rebate Calculation: Cotton Seed Extraction (40%)

Quality Parameter	Guarantee (%)	Up to/down to	Rebate 1	Up to/down to	Rebate 2
Moisture	10.00 (Max)	12.00	1.00		
Protein	40.00 (Min)	38.00	1.00	36.00	3.00
Fiber	14.00 (Max)	16.00	1.00		
Silica	2.00 (Max)	3.00	1.00	4.00	2.00

Sampling Process: Cotton Seed Extraction (40%)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40-50 Bags	1000 g



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4.2.10 Material Name: BYPASS FAT (99%) FRACTIONATED

SAP Code: CFEE0000284

Specification: BYPASS FAT (99%) FRACTIONATED

Test	Specification	Max./Min. Rebate Limits	Unit
Visual observation			
Fat	Min. 99.00	Down to 95.00	%

Premium/Rebate Calculation: BYPASS FAT (99%) FRACTIONATED

Quality Parameter	Guarantee (%)	up to/ down to	Rebate 1	up to/ down to	Rebate 2	up to/ down to	Rebate 3	up to/ down to	Premium
Fat	99.00 (Min)	97.0	2.00	95.00	4.00				

Sampling Process: BYPASS FAT (99%) FRACTIONATED

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40-50% Bags	1000 g



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4.2.11 Material Name: MOLASSES

SAP Code: MOLAS000001

Specification: MOLASSES

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	26.00 Max.	Up to 30.00	%
Density	1.40 Min	Down to 1.35	g/ml

Premium/Rebate Calculation: MOLASSES

If molasses density will be found below 1.35 g/ml so that consignment will be rejected or additional rebate as per union decision.

Sampling Process: MOLASSES

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	Each consignment	1000 ml

Special Condition: MOLASSES

1. The supplier MUST have all valid/legal documentation pertaining for supply of this material. In case of any legal issue the supplier shall be wholly responsible.
2. The Supplier MUST HAVE all legal Licenses and SHOULD Supply a Copy of the same at the time of participating in Tender.
3. The Supplier MUST have all legal requirements in regard of supply of Molasses according to the Regulations of the Prohibition and Excise department according to the State of Gujarat.



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4.2.12 Material Name: Salseed Extraction

SAP CODE: (CFEED000042)

Test	Specification	Max./Min Rebate Limits	Unit
Moisture	Max.10.00	Up to 12.00	%
Protein	Min.9.00	Down to 6.00	%
Fiber	Max.03.00	Up to 6.00	%
Silica	Max.2.50	Up to 05.00	%

Premium/Rebate Calculation: Salseed Extraction (CFEED000042)

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
Protein	Min.9.00	7.00	2.00	6.00	4.00		
Fiber	Max.3.00	5.00	1.00	6.00	2.00		
Silica	Max.2.50	3.00	1.00	5.00	2.00		

Sampling Process: Salseed Extraction (CFEED000042)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60% Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.13 Material Name: Rice Kanki

SAP CODE: (CFEED000146)

Specification: Rice Kanki

Test	Specification	Max./Min Rebate Limits	Unit
Dust	Max.1.00	Up to3.00	%
Infestation	Max.5.00	Up to30.00	%
Moisture	Max.10.00	Upto 16.00	%

Premium/Rebate Calculation: Rice Kanki

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max)	12.00	1.00	14.00	2.00	16.00	3.00
Infestation	5.00 (Max)	10.00	1.00	20.00	2.00	30.00	3.00
Dust	1.00 (Max)	2.00	1.00	3.00	2.00		

Sampling Process: Rice Kanki

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 % Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.14 Material Name: Damage Wheat

SAP CODE: (CFEED000014)

Specification: Damaged wheat

Test	Specification	Max./Min. Rebate Limits	Unit
Dust	Max.1.00	Up to3.00	%
Infestation	Max.5.00	Up to30.00	%
Moisture	Max.10.00	Up to 16.00	%

Premium/Rebate Calculation: Damaged Wheat

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max)	12.00	1.00	14.00	2.00	16.00	3.00
Infestation	5.00 (Max)	10.00	1.00	20.00	2.00	30.00	3.00
Dust	1.00 (Max)	2.00	1.00	3.00	2.00		

Sampling Process: Damaged wheat

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 % Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.15 Material Name: Bajri Bhardo

SAP CODE: (CFEED000324)

Specification: Bajri Bhardo

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max.10.00	Up to 16.00	%
Silica	Max.1.00	Up to 2.5	%

Premium/Rebate Calculation: Bajri Bhardo

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max.)	12.00	1.00	14.00	2.00	6.00	3.00
Silica	1.00 (Max.)	1.50	1.00	2.00	2.00	2.5	3.00

Sampling Process: Bajri Bhardo

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 % Bags	1000 g

1. Physically material should be only of Bajri Bhardo.
2. Material shouldn't be a Whole Bajri grains or fine powder.
3. Any type of adulteration like calcite powder/ common salt etc. found then the whole consignment will be rejected.
4. Material shall be free from live weevils/ insects and husky material.
5. Material should preferably be packed & supplied in sound bags.
6. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
7. Weighment, sampling and analysis will be done at our factory.



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4.2.16 Material Name: Juwar

SAP CODE: (CFEED000030)

Specification: Juwar

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max.10.00	Up to 16.00	%
Infestation	Max.5.00	Up to30.00	%
Dust	Max.1.00	Up to3.00	%

Premium/Rebate Calculation: Juwar

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	10.00 (Max)	12.00	1.00	14.00	2.00	16.00	3.00
Infestation	5.00 (Max)	10.00	1.00	20.00	2.00	30.00	3.00
Dust	1.00 (Max)	2.00	1.00	3.00	2.00		

Sampling Process: Juwar

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 % Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.17 Material Name: Calcite Powder

SAP CODE: CFEED000005

SPECIFICATION: Calcite Powder (CFEED000005)

Specification For	Tests	Requirement		UOM
		Specification	Max./Min. Limits with Discount	
Calcite Powder	Moisture	Max. 1.00	-	%
	Calcium	Min. 37.00	Down to 36.00 Up to 40.00	%
	Total Ash	Min. 54.00 Max. 60.00	Down to 52.00 Up to 62.00	%
	Silica	Max. 3.00	Up to 6.50	%

Rebate Structure of Calcite Powder (CFEED000005)

Raw Material Item	Quality Parameter	Guarantee (%)	up to/down to	Rebate I (%)	up to/down to	Rebate II (%)
Calcite Powder	Calcium	37.00 (Min)	36.50	1.00	36.00	2.00
	Total Ash	54.00 (Min)	53.00	0.50	52.00	1.00
	Total Ash	60.00 (Max)	61.00	0.50	62.00	1.00
	Silica	03.00 (Max)	4.00	1.00	6.50	4.00

Sampling process:

1. The 100% sample should pass through the sieve (1MM IS).
2. The sample should be taken into each consignment bags randomly as per quality Norms.
3. If anyone sample fails at the time of double sampling, whole lot will get rejected.

Notes:

1. Every consignment of material will be accepted with individual COA basis.
2. Sample will be tested at In-house lab OR at CALF (NDDDB-ANAND) and finally taking decision for additional rebate or accept depend on union authority.
3. For sample tested from outside lab, the whole cost of sampling will be borne by suppliers.



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4.2.18 Material Name: Grinding Salt

SAP CODE: CFEED000025

SPECIFICATION: Grinding Salt (CFEED000025)

Sr. No	Specification For	Tests	Requirement		UOM
			Specification	Max./Min. Limits with Discount	
1.	Grinding Salt	Purity	Min. 98.00	Down to 96.00	%
		Moisture	Max. 2.00	Up to 6.00	%

Rebate Structure of Grinding Salt (CFEED000025)

Raw Material Item	Quality Parameter	Guarantee (%)	up to/down to	Rebate I (%)	up to/down to	Rebate II (%)
Grinded Salt	Purity	98.00 (Min)	96.00	1.00	-	-
	Moisture	02.00 (Max)	4.00	1.00	6.00	3.00

Sampling process:

1. The 100% sample should pass through the sieve (1MM IS).
2. The sample should be taken into each consignment bags randomly as per quality Norms.
3. If anyone sample fails at the time of double sampling, whole lot will get rejected.

Notes:

1. Every consignment of material will be accepted with individual COA basis.
2. Sample will be tested at In-house lab OR at CALF (NDDDB-ANAND) and finally taking decision for additional rebate or accept depend on union authority.
3. For sample tested from outside lab, the whole cost of sampling will be borne by suppliers.



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4.2.19 Material Name: Soyabean Extract

SAP Code: CFEED000046

Specification: Soyabean Extract

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 48.00	Down to 44.00	%
Fiber	Max. 6.00	Up to 8.00	%
Silica	Max. 2.00	Up to 4.00	%

Premium/Rebate Calculation: Soyabean Extract

Quality Parameter	Guarantee (%)	Up to/down to	Rebate 1	Up to/down to	Rebate 2
Moisture	10.00 (Max)	12.00	1.00		
Protein	48.00 (Min)	46.00	1.00	44.00	2.00
Fiber	6.00 (Max)	8.00	1.00		
Silica	2.00 (Max)	2.5	1.00	4.00	2.00

Sampling Process: Soyabean Extract

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40-50% Bags	1000 g



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4.2.20: Material Name: GROUND NUT OIL CAKE 40%

SAP Code: OCAKE000013

Specification Details: Ground Nut Oil Cake 40.00%

Parameters	Specifications	Rebate Limits (Max/Min)
Moisture %	Max. 10.00	Up to 14.00
O+A %	Min. 40.00	Down to 34.00
Fat %	Min. 7.00	Down to 5.00
Fiber %	Max. 20.00	Up to 24.00
Silica %	Max. 2.50	Up to 7.00



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4.2.21: Material Name: BARLEY

SAP CODE: CFEED000063

Specification: Barley

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max.10.00	Up to 16.00	%
Infestation	Max.5.00	Up to 30.00	%
Dust	Max.1.00	Up to 3.00	%

Premium/Rebate Calculation: Barley

Quality Parameter	Guarantee (%)	Up to/Down to	Rebate-1	Up to/Down to	Rebate-2	Up to/Down to	Rebate-3
Moisture	Max.10.00	12.00	1.00	14.00	2.00	16.00	3.00
Infestation	Max. 5.00	10.00	1.00	20.00	2.00	30.00	3.00
Dust	Max. 1.00	2.00	1.00	3.00	2.00		

Sampling Process: Barley

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 % Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.22: Material Name: POHA TUKADI

SAP CODE: CFEED000156

Specification: Poha Tukadi

Test	Specification	Max./Min. Rebate Limits	Unit
Dust	Max. 1.00	Up to 3.00	%
Infestation	Max. 5.00	Up to 30.00	%
Moisture	Max. 10.00	Up to 12.00	%
Retention	Min. 60.00	Down to 55.00	%

Premium/Rebate Calculation: Poha Tukadi

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate-1	Up to/ down to	Rebate-2	Up to/ down to	Rebate-3
Dust	Max. 1.00	2.00	1.00	3.00	2.00		
Infestation	Max. 5.00	10.00	1.00	20.00	2.00	30.00	3.00
Moisture	Max.10.00	12.00	1.00	14.00	2.00	16.00	3.00
Retention	Min. 60.00	58.00	1.00	56.00	2.00	55.00	3.00

Sampling Process: Poha Tukadi

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	60 % Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.23: Material Name: SUNFLOWER EXTRACTION

SAP CODE: CFEED000048

Specification: Sunflower Extraction

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 31.00	Down to 26.00	%
Fibre	Max. 22.00	Up to 26.00	%
Silica	Max. 2.50	Up to 5.00	%

Premium/Rebate Calculation: Sunflower Extraction

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate-1	Up to/ down to	Rebate-2	Up to/ down to	Rebate-3
Moisture	Max.10.00	12.00	1.00				
Protein	Min.31.00	28.00	2.00	26.00	4.00		
Fibre	Max.22.00	24.00	1.00	26.00	2.00		
Silica	Max.2.50	3.00	1.00	5.00	2.00		

Sampling Process: : Sunflower Extraction

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40 – 50 % Bags	1000 g



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4.2.24: Material Name: BABUL CHUNI

SAP CODE: CFEED000003

Specification: Babul Chuni

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
O+A	Min. 18.00	Down to 13.00	%
Fibre	Max. 15.00	Up to 18.00	%
Silica	Max. 2.50	Up to 5.00	%

Premium/Rebate Calculation: Babul Chuni

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
O+A	Min. 18.00	17.00	1.00	15.00	2.00	13.00	3.00
Fibre	Max.15.00	18.00	1.00				
Silica	Max. 2.50	3.00	1.00	5.00	2.00		

Sampling Process: Babul Chuni

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.25 Material Name: MANGO EXTRACT

SAP CODE: CFEED000033

Specification: Mango Extract

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 8.00	Down to 5.00	%
Fibre	Max. 3.00	Up to 7.00	%
Silica	Max. 2.50	Up to 5.00	%
CHO's	Min. 72.00	Down to 70.00	%

Premium/Rebate Calculation: Mango Extract

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate-1	Up to/ down to	Rebate-2	Up to/ down to	Rebate-3
Moisture	Max.10.00	12.00	1.00	-	-	-	-
Protein	Min. 8.00	6.00	1.00	5.00	2.00	-	-
Fibre	Max. 3.00	5.00	1.00	7.00	2.00	-	-
Silica	Max.2.50	3.00	1.00	5.00	2.00	-	-
CHO's	Min. 72.00	70.00	1.00	-	-	-	-

Sampling Process: Mango Extract

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 % Bags	1000 g



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4.2.26 Material Name: TAMARIND POWDER

SAP CODE: CFEED000093

Specification: Tamarind Powder

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
O+A	Min. 16.00	Down to 12.00	%
Fibre	Max. 10.00	Up to 13.00	%
Silica	Max. 2.50	Up to 5.00	%

Premium/Rebate Calculation: Tamarind Powder

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00	-	-	-	-
O+A	Min. 16.00	14.00	1.00	12.00	2.00	-	-
Fibre	Max.10.00	13.00	1.00	-	-	-	-
Silica	Max. 2.50	3.00	1.00	5.00	2.00	-	-

Sampling Process: Tamarind Powder

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.27 Material Name: GUAR CHUNI (40%)

SAP CODE: CFEED000027

Specification: Guar Chuni (40%)

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
O+A	Min. 40.00	Down to 36.00	%
Fibre	Max. 15.00	Up to 17.00	%
Silica	Max. 1.00	Up to 2.50	%

Premium/Rebate Calculation: Guar Chuni (40%)

Quality Parameter	Guarantee (%)	Up to/down to	Rebate 1	Up to/down to	Rebate 2	Up to/down to	Rebate 3
Moisture	Max. 10.00	12.00	1.00	-	-	-	-
O+A	Min. 40.00	38.00	1.00	36.00	2.00	-	-
Fibre	Max. 15.00	17.00	2.00	-	-	-	-
Silica	Max. 1.00	2.50	1.00	-	-	-	-

Sampling Process: Guar Chuni (40%)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.28 Material Name: Chana Chuni

SAP Code: CFEED000409

Specifications and rebate structure of Chana Chuni (CFEED000409)

Quality parameter	Guarantee (%)	Down to	Rebate 1	Down to	Rebate 2	Down to	Rebate 3
Moisture	10% Max	12%	1	12.1 to 14 %	2	-	-
Protein	15 % Min	13%	0.5	13 to 11 %	1	-	-
Fibre	30 % Max	35%	0.5	35 to 40 %	1	-	-
Silica	3% max	3.1 to 5.0%	1	-	-	-	-



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4.2.29 Material Name: Tuver Chuni

SAP Code: CFEEED000202

Specifications and rebate structure of Tuver Chuni (CFEEED000202)

Quality parameter	Guarantee (%)	Down to / up to	Rebate 1	Down to / up to	Rebate 2	Down to	Rebate 3
Moisture	10% Max	12%	1	12.1 to 14 %	2		
Protein	15 % Min	13%	0.5	13 to 11 %	1	-	-
Fibre	25 % Max	30%	0.5	30 to 40 %	1	-	-
Silica	3% Max	3.1 to 5.0%	1	-	-	-	-



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4.2.30 Material Name: Adad Chuni

SAP Code: CFEEED000443

Specifications and rebate structure of Adad Chuni (CFEEED000443)

Quality parameter	Guarantee (%)	Down to / up to	Rebate 1	Down to / up to	Rebate 2	Down to	Rebate 3
Moisture	10% Max	12%	1	12.1 to 14 %	2	-	-
Protein	15 % Min	13%	0.5	13 to 11 %	1	-	-
Fibre	20 % Max	25%	0.5	25 to 30 %	1	-	-
Silica	3% Max	3.1 to 5.0%	1	-	-	-	-



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4.2.31 Material Name: ANIFEED

SAP CODE: CFEED000002

Specification: **ANIFEED**

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Silica	Max. 2.50	Up to 5.00	%

Premium/Rebate Calculation: ANIFEED

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00	-	-	-	-
Silica	Max. 2.50	3.00	1.00	5.00	2.00	-	-

Sampling Process: ANIFEED

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.32 WHEAT BRAN

Material Name: WHEAT BRAN

SAP CODE: CFEE000058

Specification: **WHEAT BRAN**

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 16.00	%
Silica	Max. 2.00	Up to 5.00	%
Protein	Min. 15.00	Down to 10.00	%
Fibre	Max. 12.00	Up to 18.00	%

Premium/Rebate Calculation: WHEAT BRAN

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00	14.00	2.00	16.00	3.00		
Silica	Max. 2.00	3.00	1.00	4.00	2.00	5.00	3.00		
Protein	Min. 15.00	14.00	0.50	12.00	1.00	10.00	2.00		
Fibre	Max. 12.00	14.00	1.00	16.00	2.00	18.00	3.00		

Sampling Process: WHEAT BRAN

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.33 WATERMELON HUSK (POWDER)

Material Name: WATERMELON HUSK (POWDER)

SAP CODE: CFEE000150

Specification: **WATERMELON HUSK (POWDER)**

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Silica	Max. 1.00	Up to 2.500	%

Premium/Rebate Calculation: WATERMELON HUSK (POWDER)

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
Silica	Max. 1.00	2.50	1.00				

Sampling Process: WATERMELON HUSK (POWDER)

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.34 GROUND NUT SHELL POWDER

Material Name: GROUND NUT SHELL POWDER

SAP CODE: CFEE000024

Specification: GROUND NUT SHELL POWDER

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Silica	Max. 3.00	Up to 7.00	%
Retension	Max 10.00	Up to 20.00	%

Premium/Rebate Calculation: GROUND NUT SHELL POWDER

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00	-	-	-	-
Silica	Max. 3.00	5.00	2.00	7.00	3.00	-	-
Retension	Max 10.00	20.00	2.00	-	-	-	-

Sampling Process: GROUND NUT SHELL POWDER

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50% Bags	1000 g



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4.2.35 GROUNDNUT EXTRACTION (45 %)

SAP CODE: CFEE000148

Specification: GROUNDNUT EXTRACTION

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Silica	Max. 2.50	Up to 5.00	%
Protein	Min. 45.00	Down to 41.00	%
Fibre	Max. 16.00	Up to 20.00	%

Premium/Rebate Calculation:

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
Silica	Max. 2.50	3.00	1.00	5.00	2.00		
Protein	Min. 45.00	43.00	1.00	41.00	2.00		
Fibre	Max. 16.00	18.00	1.00	20.00	2.00		

Sampling Process:

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	40 - 50% Bags	1000 g

1. Material shall be free from live weevils/ insects, impurities, adulterants, fungus, rancidity, undesirable, objectionable odour, iron and any other metallic pieces.
2. Material should preferably be packed & supplied in sound bags.
3. Suppliers should be provide traceability for original source of materials with relevant documents, at the time of supply.
4. Weighment, sampling and analysis will be done at our factory laboratory.



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4.2.36 RICE DDGS

SAP CODE: CFEE000493

Specification: RICE DDGS

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 12.00	%
Protein	Min. 45.00	Down to 42.00	%
Fibre	Max. 7.00	Up to 10.00	%
Silica	Max. 1.00	Up to 2.50	%
Aflatoxin B1	Max 50		ppb

Premium/RebateCalculation: RICE DDGS

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00				
Protein	Min. 45.00	44.00	1.00	43.00	2.00	42.00	4.00
Fibre	Max. 7.00	8.00	1.00	9.00	2.00	10.00	3.00
Silica	Max. 1.00	2.00	1.00	2.50	2.00		

- All the rebate on Cumulative Basis.

Sampling Process:

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Blackish, overheated and objectionable odour contain material should be rejected
3. Material should preferably be packed & supplied in sound bags.
4. Suppliers should provide traceability for original source of materials with relevant documents, at the time of supply.
5. Weighment, sampling and analysis will be done at our factory.



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4.2.37 PUWAD CHUNI

SAP CODE: CFEED000036

Specification: PUWAD CHUNI

Test	Specification	Max./Min. Rebate Limits	Unit
Moisture	Max. 10.00	Up to 14.00	%
O+A	Min. 28.00	Down to 22.00	%
Fibre	Max. 9.00	Up to 14.00	%
Silica	Max. 2.50	Up to 6.00	%

Premium/Rebate Calculation: PUWAD CHUNI

Quality Parameter	Guarantee (%)	Up to/ down to	Rebate 1	Up to/ down to	Rebate 2	Up to/ down to	Rebate 3
Moisture	Max.10.00	12.00	1.00	14.00	1.00		
O+A	Min. 28.00	26.00	1.00	24.00	1.00	22.00	2.00
Fibre	Max. 9.00	10.00	1.00	12.00	1.00	14.00	2.00
Silica	Max. 2.50	3.00	0.5	4.00	1.00	6.00	2.00

- All the rebates on Cumulative Basis.

Sampling Process:

Frequency	Size of Sample	
	Selection Criteria	Sample Quantity
Each Consignment	50 Bags	1000 g

1. Material shall be free from live weevils/ insects.
2. Blackish, overheated and objectionable odour contain material should be rejected
3. Material should preferably be packed & supplied in sound bags.
4. Weighment, sampling and analysis will be done at our factory.



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4.2.38 TOSTED SOYA FLOUR DEFATTED

SAP CODE: CFEED000115

Test	Specification	Max./Min. Rebate Limits	UNIT
Moisture	Max. 5.00	Up to 8.00	%
Crude Protein	Min. 52.00	Down to 48.00	%
Crude Fibre	Max. 2.00	Up to 4.00	%
Silica/AIA	Max. 0.50	Up to 1.50	%

Rebate Calculation:

SR. NO.	Quality Parameter	Guarantee	UP TO/ DOWN TO	REBATE 1	UP TO/ DOWN TO	REBATE 2
1	Moisture	5 % Max.	7	1	8	2
2	Crude Protein	52 % Min.	50	1	48	2
3	Crude Fibre	2 % Max.	3	1	4	2
4	Silica/AIA	0.5 % Max.	1	1	1.5	2

Goods should be free from impurities, adulterants, insects, fungus, infestation, Rancidity, undesirable & objectional odours.

NOTE: The sample will be tested at NDDB, CALF LAB – ANAND and finally taking decision for additional rebate or accept depend on union authority.



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4.2.39 REFINED PALM OIL

SAP CODE: FATE0000013

SR. NO.	Specifications/Quality Parameter	Guarantee
1	MOISTURE	0.15 % Max
2	FFA as Oleic Acid	0.06 % max
3	Melting Point	35-37 °C
4	BT Value	Positive
5	Refractive index 40 °C	1.4650 – 1.4740

➤ It shall be clear, free from rancidity, adulterants or other foreign matter.

Rebate Calculation: : ANY DEVIATION FROM GUARANTEE PARAMETER, FLAT 1 % REBATE ON EACH SERIAL NUMBER WHICH ONE DEVIATED FROM GUARANTEE.

NOTE: The sample will be tested at NDDB, CALF LAB – ANAND and finally taking decision for additional rebate or accept depend on union authority.



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4.2.40 SODIUM BI-CARBONATE (FOOD GRADE)

SAP CODE: CFEED000262

SR. NO.	Quality Parameter	Guarantee
1	Total Alkalinity (as NaHCO ₃)	99.00 % Min
2	pH (1 % aqueous solution)	8.8 Max
3	Sulphates (as SO ₄)	0.07 % Max
4	Lead	5 ppm Max
5	Arsenic	1.5 ppm Max
6	Copper	30 ppm Max

Each Consignment of material will be accepted only when accompanied by COA.

NOTE: REJECT IF ANY DEVIATION FROM GUARANTEE.

NOTE: The sample will be tested at NDDB, CALF LAB – ANAND and finally taking decision for additional rebate or accept depend on union authority.



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5.0 Test Methods

Raw material, additives & packing material will be analyzed for its conformity to the laid down requirement. Following references is used to prepare the test method. For specific instrument like Dickey John/Foss NIR procedure provided by the manufacturer is used as reference.

Samples for testing would be drawn from each bag of each consignment and results of our laboratory shall be considered as final. A copy of testing reports shall be shared to the supplier.

In case of dispute on quality reports, the supplier needs to arrange testing of the samples drawn by the Union at Centre for Analysis & Learning in Livestock & Food (CALF), Near IRMA Gate, Anand 388 001. In such a case the Supplier will have to bear the cost of testing. (For Moisture, retesting is not allowed)

The quality reports received from the mutually agreed lab or CALF would be considered as final.

In case the goods fail the test as per the specifications prescribed, the supplier will replace the goods as per specifications within the delivery time period OR Union may accept with proportionate rebate / penalty as deemed fit

5.1 References of Testing Methods

Sr. No.	Test	Reference
1	Sample Size	IS:2052-1979, APPENDIX C
2	Moisture	IS 7874 (Part-I): 1975
3	Protein	IS 7874 (Part-I): 1975
4	Fat	IS 7874 (Part-I): 1975
5	Crude Fiber	IS 7874 (Part-I): 1975
6	Silica	IS 7874 (Part-I): 1975
7	Calcium	NDDB Manual
8	Phosphorus	NDDB Manual
9	Urea	NDDB Manual
10	Vitamin-A	NDDB Manual
11	Vitamin-D	NDDB Manual
12	Density	NDDB Manual
13	Infestation	IS 7874 (Part- I) : 1975
14	Dust	IS 7874 (Part- I) : 1975



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5.2 Reference Test Method of Raw Materials

S. No.	Product Name	Reference Test Method								
		Moisture	Crude Protein	Crude Fat	Crude Fiber	Total Ash	Silica	Ca	P	Other
1	Grains, Juwar, Maize, Damage wheat, Bajri, Barely etc	12								23. Infestation 24. Dust
2	Rice Polish Fine	12, 11	13	14		16	17			
3	Deoiled Rice Bran	12, 11	13, 11	14, 11	11	16	17, 11			
4	GuarBhardo/ Chuni/ Babul Chuni / Tamarind seed powder	12, 11	13	14	15, 11	16	17, 11			
5	Oil seed extractions and cakes	12, 11	13, 11	14, 11	15, 11	16	17			
6	Calcite powder	12				16	17	18		26 Mesh Size
7	Grinding Salt	12								27 Purity
8	Groundnut Shell Powder	12				16	17			26 Retention time
9	Dhanial Husk	12				16	17			
10	Molasses/Myco curb AW DS	12								20 Density
11	Wheat Bran	12				16	17			
12	Bypass Fat Feed	12	By difference					ICP-OES		GC-FID (By NDDB)

~ End of DOCUMENT NO.: GTC/CFP/0022/28/060626 ~