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The contents of this product note are subject to Rules, Byelaws and Regulations of NCDEX as in force from time to time and be read therewith.

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## **CHAPTER 1 - TRADING PARAMETERS**

### **Authority**

Trading of Barley futures may be conducted under such terms and conditions as specified in the Rules, Byelaws & Regulations of the Exchange and directions of the Exchange issued from time to time. A specimen of Barley futures contract is indicated in Exhibit 1.

### **Unit of Trading**

The unit of trading for Barley shall be 10 Metric Ton. Bids and offers may be accepted in lots of 10 Metric Ton or multiples thereof.

### **Months Traded In**

Trading in Barley futures may be conducted in the months as specified by the Exchange from time to time.

### **Tick Size**

The tick size of Barley shall be Re.0.20 (20 Paise)

### **Basis Price**

The price of Barley is basis Ex-warehouse Jaipur (Chomu/KukurKheda) gross basis inclusive of all local taxes and levies.

### **Unit for Price Quotation**

The unit of Price quotation for Barley shall be in Rupees per quintal, basis Jaipur (Chomu/KukurKheda) gross basis, inclusive of all local taxes and levies.. Quotes shall not be made on any other price basis.

### **Hours of Trading**

As per directions of the Forward Markets Commission from time to time, currently -  
**Mondays through Fridays** - 10:00 AM to 5:00 PM

**Saturdays** - 10.00 AM to 2.00 PM

The Exchange may vary the above timing with due notice.

### **Last Day of Trading**

20th day of the delivery month

If 20th happens to be a holiday, a Saturday or a Sunday then the due date shall be the immediately preceding trading day (other than a Saturday) of the Exchange

### **Mark to Market**

The outstanding positions in futures contract in Barley would be marked to market daily based on the Daily Settlement Price as determined by the Exchange.

### **Position limits**

At the commodity level, position limits for Members will be 32,500 MT or 15% of Market wide open position whichever is higher

For Clients 6,500 MT

Both position limits will be subject to NCDEX Regulations and directions from time to time. The above limits will not apply to bonafide hedgers. For bonafide hedgers, the Exchange will, on a case to case basis, decide the hedge limits

For near month contracts:

The following limits would be applicable from one month prior to expiry date of a contract

Member: Maximum up to 6,500 MT or 15% of Market OI whichever is higher

Client: Maximum up to 1,300 MT

### **Margin Requirements**

NCDEX will use Value at Risk (VaR) based margin calculated at 99.95% confidence interval for one day time horizon. NCDEX reserves the right to change, reduce or levy any additional margins including any mark up margin.

### **Special Margin**

In case of additional volatility, a special margin at such other percentage, as deemed fit, will be imposed in respect of outstanding positions, which will remain in force as long as the volatility exists, after which the special margin may be relaxed.

### **Pre-Expiry Additional Margin**

There will be an additional margin imposed for the last 5 trading days, including the expiry date of the Barley contract. The additional margin will be added to the normal exposure margin and will be increased by the 3% everyday for the last 5 trading days of the contract.

### **Penalty for default**

- Existing penalty = 3%
  - Out of 3%, 1% will be credited to the buyer's account.
  - 1.75% goes to the Investors Protection Fund and 0.25% would be retained by the Exchange.
- In addition to the initial penalty of 3%, seller will be charged the price differential of the average of top 3 spot prices polled from E+1 to E+5. 100% of this differential will be transferred to the buyer.

### **Delivery Margins**

In case of open positions materializing into physical delivery, delivery margins will be charged for each commodity. The delivery margins will be calculated based on the number of days required for completing the physical delivery settlement (the look-ahead period and the risks arising thereof).

### **Arbitration**

Disputes between NCDEX members and non-members pertaining to trades done/to be done on NCDEX will be settled through arbitration. The arbitration proceedings and appointment of arbitrators will be governed by the Rules, Byelaws and Regulations of NCDEX.

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## **CHAPTER 2 - DELIVERY PROCEDURES**

### **Unit of Delivery**

The minimum unit of delivery for Barley shall be 10 Metric Tonnes.

### **Delivery Size**

Delivery is to be offered and accepted in lots of 10 MT gross or multiples thereof. A quantity variation of +/- 5% is permitted as per contract specification.

### **Delivery Requests**

The procedure for Barley delivery is based on the contract specifications as per **Exhibit-I**. All the open positions shall have to be compulsorily delivered either by giving delivery or taking delivery as the case may be. That is, **"upon expiry of the contract, any seller with open position shall give delivery of the commodity. The corresponding buyer with open position as matched by the process put in place by the Exchange shall be bound to settle by taking physical delivery. In the event of default by seller to give delivery, such defaulting seller will be liable to penalty as may be prescribed by the Exchange from time to time"**. Presently, the penalty structure for failure to meet delivery obligations will be as per circular no. NCDEX/TRADING- 086/2008/216 dated September 16, 2008

The buyers and sellers need to give their location preference through the front end of trading terminal. If the sellers fail to give the location preference then the allocation to the extent of his open position will be allocated to the base location.

### **Delivery Allocation**

The Exchange would then compile delivery requests received from members on the last trading day, as specified in Chapter 1 above. The buyers / sellers who have to receive / give delivery would be notified on the same day after the close of trading hours. Delivery of Barley is to be accepted by buyers at the accredited warehouse where the seller affects delivery in accordance with the contract specifications.

### **Actual Delivery**

Where Barley is sold for delivery in a specified month, the seller must have requisite electronic credit of such Barley holding in his Clearing Member's Pool Account before the scheduled date of pay in. On settlement the buyer's Clearing Member's Pool Account would be credited with the said delivery quantity on pay out. The Clearing Member is expected to transfer the same to the buyer's depository account. However, the buyer must take actual physical delivery of Barley before expiry of the validity date as indicated in the quality test report/Assayer's Certificate of the Assayer or get the same revalidated.

### **Quality Standards**

The quality for delivery of Barley futures contracts made under NCDEX Regulations shall be Barley confirming to the quality specification indicated in contract specifications. No lower grade/quality shall be accepted in satisfaction of futures contracts for delivery except as and to the extent provided in the contract specifications. Delivery of higher grade would be accepted without premium.

**Accredited Warehouse**

NCDEX has accredited warehouse for receipt and delivery of Barley. Receipt and delivery of Barley will be undertaken only from the designated warehouse as per Exhibit 2. The Barley received at the NCDEX accredited warehouse will be tested and certified by empanelled Assayer before acceptance as good delivery in the warehouse. Likewise, Barley delivered to buyers will be from the accredited warehouse only.

**Packaging**

Barley delivered shall be packed in clean, dry, sound, un-mended Jute bags. Bags with mending with hands or patch work would not be accepted for delivery. Jute bags with the mouth of the bag properly stitched to prevent oozing/spillage would be allowed for delivery. Jute bags with any cuts/openings from where spillage is possible would not be accepted for delivery. The packaging of Barley should be in bags of 80 Kg gross weight only.

**Standard Allowances**

<b>Sample weight per validation of quality &amp; Spillage</b>	<b>0.5%</b>
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**At the time of deposit**

The quantity credited will be the actual quantity delivered at the tested moisture level, after providing for standard allowances on account of spillage and sampling.

**Weight**

The quantity of Barley received at the NCDEX accredited warehouse would be determined/ calculated by the designated weighbridge at the premises of the warehouse or in its vicinity, would be binding on all parties.

**Good/ Bad delivery Norms**

Barley delivery into NCDEX accredited warehouse would constitute either good delivery or bad delivery based on the good/ bad delivery norms as per Exhibit 3. The list contained in Exhibit 3 is only illustrative and not exhaustive. NCDEX would from time to time review and update the good & bad delivery norms retaining the trade/ industry practices.

**Sampling**

The sampling will be done from 100% of bags. Out of every sample lot of 20 MT, all the bags will be sampled. Samples will be drawn from 3 places of each bag and a composite mixture of 1 Kgs will be made. This is then divided into 4 parts

These samples will be distributed as under:

- One sample to Depositor
- One sample to Warehouse
- One sample for Analysis by assayer
- One sample for record with assayer

**Assayer**

NCDEX has empanelled Assayer for quality testing and certification of barley. Warehouse service provider can appoint assayer for particular warehouse only from the Exchange empanelled list of assayers. The quality testing and certification of barley will be undertaken only by such assayer as appointed by the warehouse service provider.

**Quality Testing Report**

The test report issued by the assayer on the samples drawn shall be acceptable and binding on all parties. A specimen format of the quality testing report is indicated in **Exhibit 4.**

**Testing Procedure**

Testing will be done by IS 4333.

**Assayer Certificate**

Testing and quality certificate issued by Assayer for Barley delivered at accredited warehouses in Jaipur and additional delivery centres as per contract specifications, shall be acceptable and binding on all parties. Each delivery of Barley at the warehouse must be accompanied by a certificate from assayer in the format as per Exhibit 4.

**Validity period**

The validity period of the Assayer’s Certificate for Barley is 6 months or till the first withdrawal from the warehouse, whichever is earlier. No revalidation is allowed.

<b>Months of Deposit /Date of entry by warehouse in system(Jan - dec)</b>	<b>Expiry period from the date of Fresh Deposit (no. of months)</b>	<b>Validity period at the time of fresh deposit (no of months)</b>	<b>How many times revalidations allowed</b>	<b>Validity Period of first revalidation(n o. of months)</b>	<b>Validity period of second revalidation (no. of months)</b>
January	6	6	0	0	0
February	6	6	0	0	0
March	6	6	0	0	0
April	6	6	0	0	0
May	6	6	0	0	0
June	6	6	0	0	0
July	6	6	0	0	0
August	6	6	0	0	0
September	6	6	0	0	0
October	6	6	0	0	0
November	6	6	0	0	0
December	6	6	0	0	0

**Electronic transfer**

Any buyer or seller receiving and or effecting Barley delivery would have to open a depository account with a NCDEX empanelled Depository Participant to hold the Barley in electronic form. On settlement, the buyer account with the DP would be credited with the quantity of Barley received and seller account would be debited. The Buyer wanting to take physical delivery of the Barley holding has to make a request to the DP in prescribed form, with which depository account has been opened. The DP would route the request to the warehouse who would issue the physical commodity i.e.: Barley to the buyer and debit his account, thus reducing the electronic balance to the extent of Barley rematerialized.

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### **Charges**

All charges and costs payable at the accredited warehouse towards delivery of Barley including sampling, grading, weighing, handling charges, storage etc. from the date of receipt into accredited warehouse up to date of pay in & settlement shall be paid by the seller. No refund for warehouse charges paid by the seller for full validity period shall be given to the seller or buyer for delivery earlier than the validity period. All charges and costs associated, handling etc. after the pay out shall be borne by the buyer. DP charges will be levied when the commodities are in the pool account.

The Assayer charges for testing and quality certification should be paid to the assayer directly at the delivery location either by cash / cheque / demand draft.

### **Stamp Duty**

Stamp duty is payable on all contract notes issued as may be applicable in the State from where the contract note is issued. The rate of stamp duty payable depends on place of issuance of contract note by the member.

### **Taxes**

#### **Service tax**

Service tax will be payable by the members of commodity Exchanges on the brokerage charges charged by them from their clients on account of dealing in commodities.

#### **Sales Tax / VAT**

Local taxes/VAT wherever applicable is to be paid by the seller to the sales tax/VAT authorities on all contracts resulting in delivery. Accordingly the buyer will have to pay the taxes/VAT to the seller at the time of settlement. Members and/or their constituents requiring to receive or deliver Barley should register with the relevant tax/VAT authorities of the place where the delivery is proposed to be received/given. In the event of sales tax exemption, such exemption certificate should be submitted before settlement of the obligation. There will be no exemptions on account of resale or second sale in VAT regime.

### **Duties & Levies**

All duties, levies etc. up to the point of sale will have to be fully borne by the seller and shall be paid to the concerned authority. All related documentation should be completed before delivery of Barley into the NCDEX accredited warehouse.

### **Premium / Discount**

Barley conforming to contract specification and delivered to NCDEX designated warehouse will be graded and stored. Due to quality variations, there will be premium/ discount determined by the Exchange. The decision of the Exchange in determination of premium/ discount is final and binding on all market participants.

**Ready Rekoner for Barley**

**Premium discount matrix**

Moisture			Damaged including Discoloured (black tipped/ black cornered only)			Broken kernels		
Upto 10.00%	=	1	Upto 3.00%	=	1	upto 3.00%	=	1
Bet 10.01% to 10.50%	=	2	Bet 3.01% to 3.50%	=	2	Bet 3.01% to 3.50%	=	2
Bet 10.51% to 11.00%	=	3	Bet 3.51% to 4.00%	=	3	Bet 3.51% to 4.00%	=	3
Bet 11.01% to 11.50%	=	4	Bet 4.01% to 4.50%	=	4	Bet 4.01% to 4.50%	=	4
Bet 11.51% to 12.00%	=	5				Bet 4.51% to 5.00%	=	5

TCW (Weight for thousand kernels)		
basis 40 gm	=	1
39	=	2
38	=	3
37	=	4
36	=	5

Moisture			Damaged including Discoloured (black tipped/ black cornered only)			Broken kernels		
1	=	0.00	1	=	0.00	1	=	0.00
2	=	-0.50	2	=	-0.50	2	=	-0.50
3	=	-1.00	3	=	-1.00	3	=	-1.00
4	=	-1.50	4	=	-1.50	4	=	-1.50
5	=	-2.00				5	=	-2.00

TCW (Weight for thousand kernels)		
1	=	0.00
2	=	-1.00
3	=	-2.00
4	=	-3.00
5	=	-5.00

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**Barley  
Product Note**



Moisture	Disc	Damaged including discoloured (black tipped/black cornered only)	Disc	Broken kernels	Disc	TCW (Weight for thousand kernels)	Disc	Grade Name	PD
1	0.00	1	0.00	1	0.00	1	0.00	BARLEY1111	0.00
1	0.00	1	0.00	1	0.00	2	-1.00	BARLEY1112	-1.00
1	0.00	1	0.00	1	0.00	3	-2.00	BARLEY1113	-2.00
1	0.00	1	0.00	1	0.00	4	-3.00	BARLEY1114	-3.00
1	0.00	1	0.00	1	0.00	5	-5.00	BARLEY1115	-5.00
1	0.00	1	0.00	2	-0.50	1	0.00	BARLEY1121	-0.50
1	0.00	1	0.00	2	-0.50	2	-1.00	BARLEY1122	-1.50
1	0.00	1	0.00	2	-0.50	3	-2.00	BARLEY1123	-2.50
1	0.00	1	0.00	2	-0.50	4	-3.00	BARLEY1124	-3.50
1	0.00	1	0.00	2	-0.50	5	-5.00	BARLEY1125	-5.50
1	0.00	1	0.00	3	-1.00	1	0.00	BARLEY1131	-1.00
1	0.00	1	0.00	3	-1.00	2	-1.00	BARLEY1132	-2.00
1	0.00	1	0.00	3	-1.00	3	-2.00	BARLEY1133	-3.00
1	0.00	1	0.00	3	-1.00	4	-3.00	BARLEY1134	-4.00
1	0.00	1	0.00	3	-1.00	5	-5.00	BARLEY1135	-6.00
1	0.00	1	0.00	4	-1.50	1	0.00	BARLEY1141	-1.50
1	0.00	1	0.00	4	-1.50	2	-1.00	BARLEY1142	-2.50
1	0.00	1	0.00	4	-1.50	3	-2.00	BARLEY1143	-3.50
1	0.00	1	0.00	4	-1.50	4	-3.00	BARLEY1144	-4.50
1	0.00	1	0.00	4	-1.50	5	-5.00	BARLEY1145	-6.50
1	0.00	1	0.00	5	-2.00	1	0.00	BARLEY1151	-2.00
1	0.00	1	0.00	5	-2.00	2	-1.00	BARLEY1152	-3.00
1	0.00	1	0.00	5	-2.00	3	-2.00	BARLEY1153	-4.00
1	0.00	1	0.00	5	-2.00	4	-3.00	BARLEY1154	-5.00
1	0.00	1	0.00	5	-2.00	5	-5.00	BARLEY1155	-7.00
1	0.00	2	-0.50	1	0.00	1	0.00	BARLEY1211	-0.50
1	0.00	2	-0.50	1	0.00	2	-1.00	BARLEY1212	-1.50
1	0.00	2	-0.50	1	0.00	3	-2.00	BARLEY1213	-2.50
1	0.00	2	-0.50	1	0.00	4	-3.00	BARLEY1214	-3.50
1	0.00	2	-0.50	1	0.00	5	-5.00	BARLEY1215	-5.50
1	0.00	2	-0.50	2	-0.50	1	0.00	BARLEY1221	-1.00
1	0.00	2	-0.50	2	-0.50	2	-1.00	BARLEY1222	-2.00
1	0.00	2	-0.50	2	-0.50	3	-2.00	BARLEY1223	-3.00
1	0.00	2	-0.50	2	-0.50	4	-3.00	BARLEY1224	-4.00
1	0.00	2	-0.50	2	-0.50	5	-5.00	BARLEY1225	-6.00
1	0.00	2	-0.50	3	-1.00	1	0.00	BARLEY1231	-1.50
1	0.00	2	-0.50	3	-1.00	2	-1.00	BARLEY1232	-2.50
1	0.00	2	-0.50	3	-1.00	3	-2.00	BARLEY1233	-3.50
1	0.00	2	-0.50	3	-1.00	4	-3.00	BARLEY1234	-4.50
1	0.00	2	-0.50	3	-1.00	5	-5.00	BARLEY1235	-6.50

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**Barley  
Product Note**



1	0.00	2	-0.50	4	-1.50	1	0.00	BARLEY1241	-2.00
1	0.00	2	-0.50	4	-1.50	2	-1.00	BARLEY1242	-3.00
1	0.00	2	-0.50	4	-1.50	3	-2.00	BARLEY1243	-4.00
1	0.00	2	-0.50	4	-1.50	4	-3.00	BARLEY1244	-5.00
1	0.00	2	-0.50	4	-1.50	5	-5.00	BARLEY1245	-7.00
1	0.00	2	-0.50	5	-2.00	1	0.00	BARLEY1251	-2.50
1	0.00	2	-0.50	5	-2.00	2	-1.00	BARLEY1252	-3.50
1	0.00	2	-0.50	5	-2.00	3	-2.00	BARLEY1253	-4.50
1	0.00	2	-0.50	5	-2.00	4	-3.00	BARLEY1254	-5.50
1	0.00	2	-0.50	5	-2.00	5	-5.00	BARLEY1255	-7.50
1	0.00	3	-1.00	1	0.00	1	0.00	BARLEY1311	-1.00
1	0.00	3	-1.00	1	0.00	2	-1.00	BARLEY1312	-2.00
1	0.00	3	-1.00	1	0.00	3	-2.00	BARLEY1313	-3.00
1	0.00	3	-1.00	1	0.00	4	-3.00	BARLEY1314	-4.00
1	0.00	3	-1.00	1	0.00	5	-5.00	BARLEY1315	-6.00
1	0.00	3	-1.00	2	-0.50	1	0.00	BARLEY1321	-1.50
1	0.00	3	-1.00	2	-0.50	2	-1.00	BARLEY1322	-2.50
1	0.00	3	-1.00	2	-0.50	3	-2.00	BARLEY1323	-3.50
1	0.00	3	-1.00	2	-0.50	4	-3.00	BARLEY1324	-4.50
1	0.00	3	-1.00	2	-0.50	5	-5.00	BARLEY1325	-6.50
1	0.00	3	-1.00	3	-1.00	1	0.00	BARLEY1331	-2.00
1	0.00	3	-1.00	3	-1.00	2	-1.00	BARLEY1332	-3.00
1	0.00	3	-1.00	3	-1.00	3	-2.00	BARLEY1333	-4.00
1	0.00	3	-1.00	3	-1.00	4	-3.00	BARLEY1334	-5.00
1	0.00	3	-1.00	3	-1.00	5	-5.00	BARLEY1335	-7.00
1	0.00	3	-1.00	4	-1.50	1	0.00	BARLEY1341	-2.50
1	0.00	3	-1.00	4	-1.50	2	-1.00	BARLEY1342	-3.50
1	0.00	3	-1.00	4	-1.50	3	-2.00	BARLEY1343	-4.50
1	0.00	3	-1.00	4	-1.50	4	-3.00	BARLEY1344	-5.50
1	0.00	3	-1.00	4	-1.50	5	-5.00	BARLEY1345	-7.50
1	0.00	3	-1.00	5	-2.00	1	0.00	BARLEY1351	-3.00
1	0.00	3	-1.00	5	-2.00	2	-1.00	BARLEY1352	-4.00
1	0.00	3	-1.00	5	-2.00	3	-2.00	BARLEY1353	-5.00
1	0.00	3	-1.00	5	-2.00	4	-3.00	BARLEY1354	-6.00
1	0.00	3	-1.00	5	-2.00	5	-5.00	BARLEY1355	-8.00
1	0.00	4	-1.50	1	0.00	1	0.00	BARLEY1411	-1.50
1	0.00	4	-1.50	1	0.00	2	-1.00	BARLEY1412	-2.50
1	0.00	4	-1.50	1	0.00	3	-2.00	BARLEY1413	-3.50
1	0.00	4	-1.50	1	0.00	4	-3.00	BARLEY1414	-4.50
1	0.00	4	-1.50	1	0.00	5	-5.00	BARLEY1415	-6.50
1	0.00	4	-1.50	2	-0.50	1	0.00	BARLEY1421	-2.00
1	0.00	4	-1.50	2	-0.50	2	-1.00	BARLEY1422	-3.00
1	0.00	4	-1.50	2	-0.50	3	-2.00	BARLEY1423	-4.00
1	0.00	4	-1.50	2	-0.50	4	-3.00	BARLEY1424	-5.00
1	0.00	4	-1.50	2	-0.50	5	-5.00	BARLEY1425	-7.00
1	0.00	4	-1.50	3	-1.00	1	0.00	BARLEY1431	-2.50
1	0.00	4	-1.50	3	-1.00	2	-1.00	BARLEY1432	-3.50
1	0.00	4	-1.50	3	-1.00	3	-2.00	BARLEY1433	-4.50
1	0.00	4	-1.50	3	-1.00	4	-3.00	BARLEY1434	-5.50
1	0.00	4	-1.50	3	-1.00	5	-5.00	BARLEY1435	-7.50

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**Barley  
Product Note**



1	0.00	4	-1.50	4	-1.50	1	0.00	BARLEY1441	-3.00
1	0.00	4	-1.50	4	-1.50	2	-1.00	BARLEY1442	-4.00
1	0.00	4	-1.50	4	-1.50	3	-2.00	BARLEY1443	-5.00
1	0.00	4	-1.50	4	-1.50	4	-3.00	BARLEY1444	-6.00
1	0.00	4	-1.50	4	-1.50	5	-5.00	BARLEY1445	-8.00
1	0.00	4	-1.50	5	-2.00	1	0.00	BARLEY1451	-3.50
1	0.00	4	-1.50	5	-2.00	2	-1.00	BARLEY1452	-4.50
1	0.00	4	-1.50	5	-2.00	3	-2.00	BARLEY1453	-5.50
1	0.00	4	-1.50	5	-2.00	4	-3.00	BARLEY1454	-6.50
1	0.00	4	-1.50	5	-2.00	5	-5.00	BARLEY1455	-8.50
2	-0.50	1	0.00	1	0.00	1	0.00	BARLEY2111	-0.50
2	-0.50	1	0.00	1	0.00	2	-1.00	BARLEY2112	-1.50
2	-0.50	1	0.00	1	0.00	3	-2.00	BARLEY2113	-2.50
2	-0.50	1	0.00	1	0.00	4	-3.00	BARLEY2114	-3.50
2	-0.50	1	0.00	1	0.00	5	-5.00	BARLEY2115	-5.50
2	-0.50	1	0.00	2	-0.50	1	0.00	BARLEY2121	-1.00
2	-0.50	1	0.00	2	-0.50	2	-1.00	BARLEY2122	-2.00
2	-0.50	1	0.00	2	-0.50	3	-2.00	BARLEY2123	-3.00
2	-0.50	1	0.00	2	-0.50	4	-3.00	BARLEY2124	-4.00
2	-0.50	1	0.00	2	-0.50	5	-5.00	BARLEY2125	-6.00
2	-0.50	1	0.00	3	-1.00	1	0.00	BARLEY2131	-1.50
2	-0.50	1	0.00	3	-1.00	2	-1.00	BARLEY2132	-2.50
2	-0.50	1	0.00	3	-1.00	3	-2.00	BARLEY2133	-3.50
2	-0.50	1	0.00	3	-1.00	4	-3.00	BARLEY2134	-4.50
2	-0.50	1	0.00	3	-1.00	5	-5.00	BARLEY2135	-6.50
2	-0.50	1	0.00	4	-1.50	1	0.00	BARLEY2141	-2.00
2	-0.50	1	0.00	4	-1.50	2	-1.00	BARLEY2142	-3.00
2	-0.50	1	0.00	4	-1.50	3	-2.00	BARLEY2143	-4.00
2	-0.50	1	0.00	4	-1.50	4	-3.00	BARLEY2144	-5.00
2	-0.50	1	0.00	4	-1.50	5	-5.00	BARLEY2145	-7.00
2	-0.50	1	0.00	5	-2.00	1	0.00	BARLEY2151	-2.50
2	-0.50	1	0.00	5	-2.00	2	-1.00	BARLEY2152	-3.50
2	-0.50	1	0.00	5	-2.00	3	-2.00	BARLEY2153	-4.50
2	-0.50	1	0.00	5	-2.00	4	-3.00	BARLEY2154	-5.50
2	-0.50	1	0.00	5	-2.00	5	-5.00	BARLEY2155	-7.50
2	-0.50	2	-0.50	1	0.00	1	0.00	BARLEY2211	-1.00
2	-0.50	2	-0.50	1	0.00	2	-1.00	BARLEY2212	-2.00
2	-0.50	2	-0.50	1	0.00	3	-2.00	BARLEY2213	-3.00
2	-0.50	2	-0.50	1	0.00	4	-3.00	BARLEY2214	-4.00
2	-0.50	2	-0.50	1	0.00	5	-5.00	BARLEY2215	-6.00
2	-0.50	2	-0.50	2	-0.50	1	0.00	BARLEY2221	-1.50
2	-0.50	2	-0.50	2	-0.50	2	-1.00	BARLEY2222	-2.50
2	-0.50	2	-0.50	2	-0.50	3	-2.00	BARLEY2223	-3.50
2	-0.50	2	-0.50	2	-0.50	4	-3.00	BARLEY2224	-4.50
2	-0.50	2	-0.50	2	-0.50	5	-5.00	BARLEY2225	-6.50
2	-0.50	2	-0.50	3	-1.00	1	0.00	BARLEY2231	-2.00
2	-0.50	2	-0.50	3	-1.00	2	-1.00	BARLEY2232	-3.00
2	-0.50	2	-0.50	3	-1.00	3	-2.00	BARLEY2233	-4.00
2	-0.50	2	-0.50	3	-1.00	4	-3.00	BARLEY2234	-5.00
2	-0.50	2	-0.50	3	-1.00	5	-5.00	BARLEY2235	-7.00

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**Barley  
Product Note**



2	-0.50	2	-0.50	4	-1.50	1	0.00	BARLEY2241	-2.50
2	-0.50	2	-0.50	4	-1.50	2	-1.00	BARLEY2242	-3.50
2	-0.50	2	-0.50	4	-1.50	3	-2.00	BARLEY2243	-4.50
2	-0.50	2	-0.50	4	-1.50	4	-3.00	BARLEY2244	-5.50
2	-0.50	2	-0.50	4	-1.50	5	-5.00	BARLEY2245	-7.50
2	-0.50	2	-0.50	5	-2.00	1	0.00	BARLEY2251	-3.00
2	-0.50	2	-0.50	5	-2.00	2	-1.00	BARLEY2252	-4.00
2	-0.50	2	-0.50	5	-2.00	3	-2.00	BARLEY2253	-5.00
2	-0.50	2	-0.50	5	-2.00	4	-3.00	BARLEY2254	-6.00
2	-0.50	2	-0.50	5	-2.00	5	-5.00	BARLEY2255	-8.00
2	-0.50	3	-1.00	1	0.00	1	0.00	BARLEY2311	-1.50
2	-0.50	3	-1.00	1	0.00	2	-1.00	BARLEY2312	-2.50
2	-0.50	3	-1.00	1	0.00	3	-2.00	BARLEY2313	-3.50
2	-0.50	3	-1.00	1	0.00	4	-3.00	BARLEY2314	-4.50
2	-0.50	3	-1.00	1	0.00	5	-5.00	BARLEY2315	-6.50
2	-0.50	3	-1.00	2	-0.50	1	0.00	BARLEY2321	-2.00
2	-0.50	3	-1.00	2	-0.50	2	-1.00	BARLEY2322	-3.00
2	-0.50	3	-1.00	2	-0.50	3	-2.00	BARLEY2323	-4.00
2	-0.50	3	-1.00	2	-0.50	4	-3.00	BARLEY2324	-5.00
2	-0.50	3	-1.00	2	-0.50	5	-5.00	BARLEY2325	-7.00
2	-0.50	3	-1.00	3	-1.00	1	0.00	BARLEY2331	-2.50
2	-0.50	3	-1.00	3	-1.00	2	-1.00	BARLEY2332	-3.50
2	-0.50	3	-1.00	3	-1.00	3	-2.00	BARLEY2333	-4.50
2	-0.50	3	-1.00	3	-1.00	4	-3.00	BARLEY2334	-5.50
2	-0.50	3	-1.00	3	-1.00	5	-5.00	BARLEY2335	-7.50
2	-0.50	3	-1.00	4	-1.50	1	0.00	BARLEY2341	-3.00
2	-0.50	3	-1.00	4	-1.50	2	-1.00	BARLEY2342	-4.00
2	-0.50	3	-1.00	4	-1.50	3	-2.00	BARLEY2343	-5.00
2	-0.50	3	-1.00	4	-1.50	4	-3.00	BARLEY2344	-6.00
2	-0.50	3	-1.00	4	-1.50	5	-5.00	BARLEY2345	-8.00
2	-0.50	3	-1.00	5	-2.00	1	0.00	BARLEY2351	-3.50
2	-0.50	3	-1.00	5	-2.00	2	-1.00	BARLEY2352	-4.50
2	-0.50	3	-1.00	5	-2.00	3	-2.00	BARLEY2353	-5.50
2	-0.50	3	-1.00	5	-2.00	4	-3.00	BARLEY2354	-6.50
2	-0.50	3	-1.00	5	-2.00	5	-5.00	BARLEY2355	-8.50
2	-0.50	4	-1.50	1	0.00	1	0.00	BARLEY2411	-2.00
2	-0.50	4	-1.50	1	0.00	2	-1.00	BARLEY2412	-3.00
2	-0.50	4	-1.50	1	0.00	3	-2.00	BARLEY2413	-4.00
2	-0.50	4	-1.50	1	0.00	4	-3.00	BARLEY2414	-5.00
2	-0.50	4	-1.50	1	0.00	5	-5.00	BARLEY2415	-7.00
2	-0.50	4	-1.50	2	-0.50	1	0.00	BARLEY2421	-2.50
2	-0.50	4	-1.50	2	-0.50	2	-1.00	BARLEY2422	-3.50
2	-0.50	4	-1.50	2	-0.50	3	-2.00	BARLEY2423	-4.50
2	-0.50	4	-1.50	2	-0.50	4	-3.00	BARLEY2424	-5.50
2	-0.50	4	-1.50	2	-0.50	5	-5.00	BARLEY2425	-7.50
2	-0.50	4	-1.50	3	-1.00	1	0.00	BARLEY2431	-3.00
2	-0.50	4	-1.50	3	-1.00	2	-1.00	BARLEY2432	-4.00
2	-0.50	4	-1.50	3	-1.00	3	-2.00	BARLEY2433	-5.00
2	-0.50	4	-1.50	3	-1.00	4	-3.00	BARLEY2434	-6.00
2	-0.50	4	-1.50	3	-1.00	5	-5.00	BARLEY2435	-8.00

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**Barley  
Product Note**



2	-0.50	4	-1.50	4	-1.50	1	0.00	BARLEY2441	-3.50
2	-0.50	4	-1.50	4	-1.50	2	-1.00	BARLEY2442	-4.50
2	-0.50	4	-1.50	4	-1.50	3	-2.00	BARLEY2443	-5.50
2	-0.50	4	-1.50	4	-1.50	4	-3.00	BARLEY2444	-6.50
2	-0.50	4	-1.50	4	-1.50	5	-5.00	BARLEY2445	-8.50
2	-0.50	4	-1.50	5	-2.00	1	0.00	BARLEY2451	-4.00
2	-0.50	4	-1.50	5	-2.00	2	-1.00	BARLEY2452	-5.00
2	-0.50	4	-1.50	5	-2.00	3	-2.00	BARLEY2453	-6.00
2	-0.50	4	-1.50	5	-2.00	4	-3.00	BARLEY2454	-7.00
2	-0.50	4	-1.50	5	-2.00	5	-5.00	BARLEY2455	-9.00
3	-1.00	1	0.00	1	0.00	1	0.00	BARLEY3111	-1.00
3	-1.00	1	0.00	1	0.00	2	-1.00	BARLEY3112	-2.00
3	-1.00	1	0.00	1	0.00	3	-2.00	BARLEY3113	-3.00
3	-1.00	1	0.00	1	0.00	4	-3.00	BARLEY3114	-4.00
3	-1.00	1	0.00	1	0.00	5	-5.00	BARLEY3115	-6.00
3	-1.00	1	0.00	2	-0.50	1	0.00	BARLEY3121	-1.50
3	-1.00	1	0.00	2	-0.50	2	-1.00	BARLEY3122	-2.50
3	-1.00	1	0.00	2	-0.50	3	-2.00	BARLEY3123	-3.50
3	-1.00	1	0.00	2	-0.50	4	-3.00	BARLEY3124	-4.50
3	-1.00	1	0.00	2	-0.50	5	-5.00	BARLEY3125	-6.50
3	-1.00	1	0.00	3	-1.00	1	0.00	BARLEY3131	-2.00
3	-1.00	1	0.00	3	-1.00	2	-1.00	BARLEY3132	-3.00
3	-1.00	1	0.00	3	-1.00	3	-2.00	BARLEY3133	-4.00
3	-1.00	1	0.00	3	-1.00	4	-3.00	BARLEY3134	-5.00
3	-1.00	1	0.00	3	-1.00	5	-5.00	BARLEY3135	-7.00
3	-1.00	1	0.00	4	-1.50	1	0.00	BARLEY3141	-2.50
3	-1.00	1	0.00	4	-1.50	2	-1.00	BARLEY3142	-3.50
3	-1.00	1	0.00	4	-1.50	3	-2.00	BARLEY3143	-4.50
3	-1.00	1	0.00	4	-1.50	4	-3.00	BARLEY3144	-5.50
3	-1.00	1	0.00	4	-1.50	5	-5.00	BARLEY3145	-7.50
3	-1.00	1	0.00	5	-2.00	1	0.00	BARLEY3151	-3.00
3	-1.00	1	0.00	5	-2.00	2	-1.00	BARLEY3152	-4.00
3	-1.00	1	0.00	5	-2.00	3	-2.00	BARLEY3153	-5.00
3	-1.00	1	0.00	5	-2.00	4	-3.00	BARLEY3154	-6.00
3	-1.00	1	0.00	5	-2.00	5	-5.00	BARLEY3155	-8.00
3	-1.00	2	-0.50	1	0.00	1	0.00	BARLEY3211	-1.50
3	-1.00	2	-0.50	1	0.00	2	-1.00	BARLEY3212	-2.50
3	-1.00	2	-0.50	1	0.00	3	-2.00	BARLEY3213	-3.50
3	-1.00	2	-0.50	1	0.00	4	-3.00	BARLEY3214	-4.50
3	-1.00	2	-0.50	1	0.00	5	-5.00	BARLEY3215	-6.50
3	-1.00	2	-0.50	2	-0.50	1	0.00	BARLEY3221	-2.00
3	-1.00	2	-0.50	2	-0.50	2	-1.00	BARLEY3222	-3.00
3	-1.00	2	-0.50	2	-0.50	3	-2.00	BARLEY3223	-4.00
3	-1.00	2	-0.50	2	-0.50	4	-3.00	BARLEY3224	-5.00
3	-1.00	2	-0.50	2	-0.50	5	-5.00	BARLEY3225	-7.00
3	-1.00	2	-0.50	3	-1.00	1	0.00	BARLEY3231	-2.50
3	-1.00	2	-0.50	3	-1.00	2	-1.00	BARLEY3232	-3.50
3	-1.00	2	-0.50	3	-1.00	3	-2.00	BARLEY3233	-4.50
3	-1.00	2	-0.50	3	-1.00	4	-3.00	BARLEY3234	-5.50
3	-1.00	2	-0.50	3	-1.00	5	-5.00	BARLEY3235	-7.50

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**Barley  
Product Note**



3	-1.00	2	-0.50	4	-1.50	1	0.00	BARLEY3241	-3.00
3	-1.00	2	-0.50	4	-1.50	2	-1.00	BARLEY3242	-4.00
3	-1.00	2	-0.50	4	-1.50	3	-2.00	BARLEY3243	-5.00
3	-1.00	2	-0.50	4	-1.50	4	-3.00	BARLEY3244	-6.00
3	-1.00	2	-0.50	4	-1.50	5	-5.00	BARLEY3245	-8.00
3	-1.00	2	-0.50	5	-2.00	1	0.00	BARLEY3251	-3.50
3	-1.00	2	-0.50	5	-2.00	2	-1.00	BARLEY3252	-4.50
3	-1.00	2	-0.50	5	-2.00	3	-2.00	BARLEY3253	-5.50
3	-1.00	2	-0.50	5	-2.00	4	-3.00	BARLEY3254	-6.50
3	-1.00	2	-0.50	5	-2.00	5	-5.00	BARLEY3255	-8.50
3	-1.00	3	-1.00	1	0.00	1	0.00	BARLEY3311	-2.00
3	-1.00	3	-1.00	1	0.00	2	-1.00	BARLEY3312	-3.00
3	-1.00	3	-1.00	1	0.00	3	-2.00	BARLEY3313	-4.00
3	-1.00	3	-1.00	1	0.00	4	-3.00	BARLEY3314	-5.00
3	-1.00	3	-1.00	1	0.00	5	-5.00	BARLEY3315	-7.00
3	-1.00	3	-1.00	2	-0.50	1	0.00	BARLEY3321	-2.50
3	-1.00	3	-1.00	2	-0.50	2	-1.00	BARLEY3322	-3.50
3	-1.00	3	-1.00	2	-0.50	3	-2.00	BARLEY3323	-4.50
3	-1.00	3	-1.00	2	-0.50	4	-3.00	BARLEY3324	-5.50
3	-1.00	3	-1.00	2	-0.50	5	-5.00	BARLEY3325	-7.50
3	-1.00	3	-1.00	3	-1.00	1	0.00	BARLEY3331	-3.00
3	-1.00	3	-1.00	3	-1.00	2	-1.00	BARLEY3332	-4.00
3	-1.00	3	-1.00	3	-1.00	3	-2.00	BARLEY3333	-5.00
3	-1.00	3	-1.00	3	-1.00	4	-3.00	BARLEY3334	-6.00
3	-1.00	3	-1.00	3	-1.00	5	-5.00	BARLEY3335	-8.00
3	-1.00	3	-1.00	4	-1.50	1	0.00	BARLEY3341	-3.50
3	-1.00	3	-1.00	4	-1.50	2	-1.00	BARLEY3342	-4.50
3	-1.00	3	-1.00	4	-1.50	3	-2.00	BARLEY3343	-5.50
3	-1.00	3	-1.00	4	-1.50	4	-3.00	BARLEY3344	-6.50
3	-1.00	3	-1.00	4	-1.50	5	-5.00	BARLEY3345	-8.50
3	-1.00	3	-1.00	5	-2.00	1	0.00	BARLEY3351	-4.00
3	-1.00	3	-1.00	5	-2.00	2	-1.00	BARLEY3352	-5.00
3	-1.00	3	-1.00	5	-2.00	3	-2.00	BARLEY3353	-6.00
3	-1.00	3	-1.00	5	-2.00	4	-3.00	BARLEY3354	-7.00
3	-1.00	3	-1.00	5	-2.00	5	-5.00	BARLEY3355	-9.00
3	-1.00	4	-1.50	1	0.00	1	0.00	BARLEY3411	-2.50
3	-1.00	4	-1.50	1	0.00	2	-1.00	BARLEY3412	-3.50
3	-1.00	4	-1.50	1	0.00	3	-2.00	BARLEY3413	-4.50
3	-1.00	4	-1.50	1	0.00	4	-3.00	BARLEY3414	-5.50
3	-1.00	4	-1.50	1	0.00	5	-5.00	BARLEY3415	-7.50
3	-1.00	4	-1.50	2	-0.50	1	0.00	BARLEY3421	-3.00
3	-1.00	4	-1.50	2	-0.50	2	-1.00	BARLEY3422	-4.00
3	-1.00	4	-1.50	2	-0.50	3	-2.00	BARLEY3423	-5.00
3	-1.00	4	-1.50	2	-0.50	4	-3.00	BARLEY3424	-6.00
3	-1.00	4	-1.50	2	-0.50	5	-5.00	BARLEY3425	-8.00
3	-1.00	4	-1.50	3	-1.00	1	0.00	BARLEY3431	-3.50
3	-1.00	4	-1.50	3	-1.00	2	-1.00	BARLEY3432	-4.50
3	-1.00	4	-1.50	3	-1.00	3	-2.00	BARLEY3433	-5.50
3	-1.00	4	-1.50	3	-1.00	4	-3.00	BARLEY3434	-6.50
3	-1.00	4	-1.50	3	-1.00	5	-5.00	BARLEY3435	-8.50

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Product Note**



3	-1.00	4	-1.50	4	-1.50	1	0.00	BARLEY3441	-4.00
3	-1.00	4	-1.50	4	-1.50	2	-1.00	BARLEY3442	-5.00
3	-1.00	4	-1.50	4	-1.50	3	-2.00	BARLEY3443	-6.00
3	-1.00	4	-1.50	4	-1.50	4	-3.00	BARLEY3444	-7.00
3	-1.00	4	-1.50	4	-1.50	5	-5.00	BARLEY3445	-9.00
3	-1.00	4	-1.50	5	-2.00	1	0.00	BARLEY3451	-4.50
3	-1.00	4	-1.50	5	-2.00	2	-1.00	BARLEY3452	-5.50
3	-1.00	4	-1.50	5	-2.00	3	-2.00	BARLEY3453	-6.50
3	-1.00	4	-1.50	5	-2.00	4	-3.00	BARLEY3454	-7.50
3	-1.00	4	-1.50	5	-2.00	5	-5.00	BARLEY3455	-9.50
4	-1.50	1	0.00	1	0.00	1	0.00	BARLEY4111	-1.50
4	-1.50	1	0.00	1	0.00	2	-1.00	BARLEY4112	-2.50
4	-1.50	1	0.00	1	0.00	3	-2.00	BARLEY4113	-3.50
4	-1.50	1	0.00	1	0.00	4	-3.00	BARLEY4114	-4.50
4	-1.50	1	0.00	1	0.00	5	-5.00	BARLEY4115	-6.50
4	-1.50	1	0.00	2	-0.50	1	0.00	BARLEY4121	-2.00
4	-1.50	1	0.00	2	-0.50	2	-1.00	BARLEY4122	-3.00
4	-1.50	1	0.00	2	-0.50	3	-2.00	BARLEY4123	-4.00
4	-1.50	1	0.00	2	-0.50	4	-3.00	BARLEY4124	-5.00
4	-1.50	1	0.00	2	-0.50	5	-5.00	BARLEY4125	-7.00
4	-1.50	1	0.00	3	-1.00	1	0.00	BARLEY4131	-2.50
4	-1.50	1	0.00	3	-1.00	2	-1.00	BARLEY4132	-3.50
4	-1.50	1	0.00	3	-1.00	3	-2.00	BARLEY4133	-4.50
4	-1.50	1	0.00	3	-1.00	4	-3.00	BARLEY4134	-5.50
4	-1.50	1	0.00	3	-1.00	5	-5.00	BARLEY4135	-7.50
4	-1.50	1	0.00	4	-1.50	1	0.00	BARLEY4141	-3.00
4	-1.50	1	0.00	4	-1.50	2	-1.00	BARLEY4142	-4.00
4	-1.50	1	0.00	4	-1.50	3	-2.00	BARLEY4143	-5.00
4	-1.50	1	0.00	4	-1.50	4	-3.00	BARLEY4144	-6.00
4	-1.50	1	0.00	4	-1.50	5	-5.00	BARLEY4145	-8.00
4	-1.50	1	0.00	5	-2.00	1	0.00	BARLEY4151	-3.50
4	-1.50	1	0.00	5	-2.00	2	-1.00	BARLEY4152	-4.50
4	-1.50	1	0.00	5	-2.00	3	-2.00	BARLEY4153	-5.50
4	-1.50	1	0.00	5	-2.00	4	-3.00	BARLEY4154	-6.50
4	-1.50	1	0.00	5	-2.00	5	-5.00	BARLEY4155	-8.50
4	-1.50	2	-0.50	1	0.00	1	0.00	BARLEY4211	-2.00
4	-1.50	2	-0.50	1	0.00	2	-1.00	BARLEY4212	-3.00
4	-1.50	2	-0.50	1	0.00	3	-2.00	BARLEY4213	-4.00
4	-1.50	2	-0.50	1	0.00	4	-3.00	BARLEY4214	-5.00
4	-1.50	2	-0.50	1	0.00	5	-5.00	BARLEY4215	-7.00
4	-1.50	2	-0.50	2	-0.50	1	0.00	BARLEY4221	-2.50
4	-1.50	2	-0.50	2	-0.50	2	-1.00	BARLEY4222	-3.50
4	-1.50	2	-0.50	2	-0.50	3	-2.00	BARLEY4223	-4.50
4	-1.50	2	-0.50	2	-0.50	4	-3.00	BARLEY4224	-5.50
4	-1.50	2	-0.50	2	-0.50	5	-5.00	BARLEY4225	-7.50
4	-1.50	2	-0.50	3	-1.00	1	0.00	BARLEY4231	-3.00
4	-1.50	2	-0.50	3	-1.00	2	-1.00	BARLEY4232	-4.00
4	-1.50	2	-0.50	3	-1.00	3	-2.00	BARLEY4233	-5.00
4	-1.50	2	-0.50	3	-1.00	4	-3.00	BARLEY4234	-6.00
4	-1.50	2	-0.50	3	-1.00	5	-5.00	BARLEY4235	-8.00

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**Barley  
Product Note**



4	-1.50	2	-0.50	4	-1.50	1	0.00	BARLEY4241	-3.50
4	-1.50	2	-0.50	4	-1.50	2	-1.00	BARLEY4242	-4.50
4	-1.50	2	-0.50	4	-1.50	3	-2.00	BARLEY4243	-5.50
4	-1.50	2	-0.50	4	-1.50	4	-3.00	BARLEY4244	-6.50
4	-1.50	2	-0.50	4	-1.50	5	-5.00	BARLEY4245	-8.50
4	-1.50	2	-0.50	5	-2.00	1	0.00	BARLEY4251	-4.00
4	-1.50	2	-0.50	5	-2.00	2	-1.00	BARLEY4252	-5.00
4	-1.50	2	-0.50	5	-2.00	3	-2.00	BARLEY4253	-6.00
4	-1.50	2	-0.50	5	-2.00	4	-3.00	BARLEY4254	-7.00
4	-1.50	2	-0.50	5	-2.00	5	-5.00	BARLEY4255	-9.00
4	-1.50	3	-1.00	1	0.00	1	0.00	BARLEY4311	-2.50
4	-1.50	3	-1.00	1	0.00	2	-1.00	BARLEY4312	-3.50
4	-1.50	3	-1.00	1	0.00	3	-2.00	BARLEY4313	-4.50
4	-1.50	3	-1.00	1	0.00	4	-3.00	BARLEY4314	-5.50
4	-1.50	3	-1.00	1	0.00	5	-5.00	BARLEY4315	-7.50
4	-1.50	3	-1.00	2	-0.50	1	0.00	BARLEY4321	-3.00
4	-1.50	3	-1.00	2	-0.50	2	-1.00	BARLEY4322	-4.00
4	-1.50	3	-1.00	2	-0.50	3	-2.00	BARLEY4323	-5.00
4	-1.50	3	-1.00	2	-0.50	4	-3.00	BARLEY4324	-6.00
4	-1.50	3	-1.00	2	-0.50	5	-5.00	BARLEY4325	-8.00
4	-1.50	3	-1.00	3	-1.00	1	0.00	BARLEY4331	-3.50
4	-1.50	3	-1.00	3	-1.00	2	-1.00	BARLEY4332	-4.50
4	-1.50	3	-1.00	3	-1.00	3	-2.00	BARLEY4333	-5.50
4	-1.50	3	-1.00	3	-1.00	4	-3.00	BARLEY4334	-6.50
4	-1.50	3	-1.00	3	-1.00	5	-5.00	BARLEY4335	-8.50
4	-1.50	3	-1.00	4	-1.50	1	0.00	BARLEY4341	-4.00
4	-1.50	3	-1.00	4	-1.50	2	-1.00	BARLEY4342	-5.00
4	-1.50	3	-1.00	4	-1.50	3	-2.00	BARLEY4343	-6.00
4	-1.50	3	-1.00	4	-1.50	4	-3.00	BARLEY4344	-7.00
4	-1.50	3	-1.00	4	-1.50	5	-5.00	BARLEY4345	-9.00
4	-1.50	3	-1.00	5	-2.00	1	0.00	BARLEY4351	-4.50
4	-1.50	3	-1.00	5	-2.00	2	-1.00	BARLEY4352	-5.50
4	-1.50	3	-1.00	5	-2.00	3	-2.00	BARLEY4353	-6.50
4	-1.50	3	-1.00	5	-2.00	4	-3.00	BARLEY4354	-7.50
4	-1.50	3	-1.00	5	-2.00	5	-5.00	BARLEY4355	-9.50
4	-1.50	4	-1.50	1	0.00	1	0.00	BARLEY4411	-3.00
4	-1.50	4	-1.50	1	0.00	2	-1.00	BARLEY4412	-4.00
4	-1.50	4	-1.50	1	0.00	3	-2.00	BARLEY4413	-5.00
4	-1.50	4	-1.50	1	0.00	4	-3.00	BARLEY4414	-6.00
4	-1.50	4	-1.50	1	0.00	5	-5.00	BARLEY4415	-8.00
4	-1.50	4	-1.50	2	-0.50	1	0.00	BARLEY4421	-3.50
4	-1.50	4	-1.50	2	-0.50	2	-1.00	BARLEY4422	-4.50
4	-1.50	4	-1.50	2	-0.50	3	-2.00	BARLEY4423	-5.50
4	-1.50	4	-1.50	2	-0.50	4	-3.00	BARLEY4424	-6.50
4	-1.50	4	-1.50	2	-0.50	5	-5.00	BARLEY4425	-8.50
4	-1.50	4	-1.50	3	-1.00	1	0.00	BARLEY4431	-4.00
4	-1.50	4	-1.50	3	-1.00	2	-1.00	BARLEY4432	-5.00
4	-1.50	4	-1.50	3	-1.00	3	-2.00	BARLEY4433	-6.00
4	-1.50	4	-1.50	3	-1.00	4	-3.00	BARLEY4434	-7.00
4	-1.50	4	-1.50	3	-1.00	5	-5.00	BARLEY4435	-9.00

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**Barley  
Product Note**



4	-1.50	4	-1.50	4	-1.50	1	0.00	BARLEY4441	-4.50
4	-1.50	4	-1.50	4	-1.50	2	-1.00	BARLEY4442	-5.50
4	-1.50	4	-1.50	4	-1.50	3	-2.00	BARLEY4443	-6.50
4	-1.50	4	-1.50	4	-1.50	4	-3.00	BARLEY4444	-7.50
4	-1.50	4	-1.50	4	-1.50	5	-5.00	BARLEY4445	-9.50
4	-1.50	4	-1.50	5	-2.00	1	0.00	BARLEY4451	-5.00
4	-1.50	4	-1.50	5	-2.00	2	-1.00	BARLEY4452	-6.00
4	-1.50	4	-1.50	5	-2.00	3	-2.00	BARLEY4453	-7.00
4	-1.50	4	-1.50	5	-2.00	4	-3.00	BARLEY4454	-8.00
									-
4	-1.50	4	-1.50	5	-2.00	5	-5.00	BARLEY4455	10.00
5	-2.00	1	0.00	1	0.00	1	0.00	BARLEY5111	-2.00
5	-2.00	1	0.00	1	0.00	2	-1.00	BARLEY5112	-3.00
5	-2.00	1	0.00	1	0.00	3	-2.00	BARLEY5113	-4.00
5	-2.00	1	0.00	1	0.00	4	-3.00	BARLEY5114	-5.00
5	-2.00	1	0.00	1	0.00	5	-5.00	BARLEY5115	-7.00
5	-2.00	1	0.00	2	-0.50	1	0.00	BARLEY5121	-2.50
5	-2.00	1	0.00	2	-0.50	2	-1.00	BARLEY5122	-3.50
5	-2.00	1	0.00	2	-0.50	3	-2.00	BARLEY5123	-4.50
5	-2.00	1	0.00	2	-0.50	4	-3.00	BARLEY5124	-5.50
5	-2.00	1	0.00	2	-0.50	5	-5.00	BARLEY5125	-7.50
5	-2.00	1	0.00	3	-1.00	1	0.00	BARLEY5131	-3.00
5	-2.00	1	0.00	3	-1.00	2	-1.00	BARLEY5132	-4.00
5	-2.00	1	0.00	3	-1.00	3	-2.00	BARLEY5133	-5.00
5	-2.00	1	0.00	3	-1.00	4	-3.00	BARLEY5134	-6.00
5	-2.00	1	0.00	3	-1.00	5	-5.00	BARLEY5135	-8.00
5	-2.00	1	0.00	4	-1.50	1	0.00	BARLEY5141	-3.50
5	-2.00	1	0.00	4	-1.50	2	-1.00	BARLEY5142	-4.50
5	-2.00	1	0.00	4	-1.50	3	-2.00	BARLEY5143	-5.50
5	-2.00	1	0.00	4	-1.50	4	-3.00	BARLEY5144	-6.50
5	-2.00	1	0.00	4	-1.50	5	-5.00	BARLEY5145	-8.50
5	-2.00	1	0.00	5	-2.00	1	0.00	BARLEY5151	-4.00
5	-2.00	1	0.00	5	-2.00	2	-1.00	BARLEY5152	-5.00
5	-2.00	1	0.00	5	-2.00	3	-2.00	BARLEY5153	-6.00
5	-2.00	1	0.00	5	-2.00	4	-3.00	BARLEY5154	-7.00
5	-2.00	1	0.00	5	-2.00	5	-5.00	BARLEY5155	-9.00
5	-2.00	2	-0.50	1	0.00	1	0.00	BARLEY5211	-2.50
5	-2.00	2	-0.50	1	0.00	2	-1.00	BARLEY5212	-3.50
5	-2.00	2	-0.50	1	0.00	3	-2.00	BARLEY5213	-4.50
5	-2.00	2	-0.50	1	0.00	4	-3.00	BARLEY5214	-5.50
5	-2.00	2	-0.50	1	0.00	5	-5.00	BARLEY5215	-7.50
5	-2.00	2	-0.50	2	-0.50	1	0.00	BARLEY5221	-3.00
5	-2.00	2	-0.50	2	-0.50	2	-1.00	BARLEY5222	-4.00
5	-2.00	2	-0.50	2	-0.50	3	-2.00	BARLEY5223	-5.00
5	-2.00	2	-0.50	2	-0.50	4	-3.00	BARLEY5224	-6.00
5	-2.00	2	-0.50	2	-0.50	5	-5.00	BARLEY5225	-8.00
5	-2.00	2	-0.50	3	-1.00	1	0.00	BARLEY5231	-3.50
5	-2.00	2	-0.50	3	-1.00	2	-1.00	BARLEY5232	-4.50
5	-2.00	2	-0.50	3	-1.00	3	-2.00	BARLEY5233	-5.50
5	-2.00	2	-0.50	3	-1.00	4	-3.00	BARLEY5234	-6.50

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**Barley  
Product Note**



5	-2.00	2	-0.50	3	-1.00	5	-5.00	BARLEY5235	-8.50
5	-2.00	2	-0.50	4	-1.50	1	0.00	BARLEY5241	-4.00
5	-2.00	2	-0.50	4	-1.50	2	-1.00	BARLEY5242	-5.00
5	-2.00	2	-0.50	4	-1.50	3	-2.00	BARLEY5243	-6.00
5	-2.00	2	-0.50	4	-1.50	4	-3.00	BARLEY5244	-7.00
5	-2.00	2	-0.50	4	-1.50	5	-5.00	BARLEY5245	-9.00
5	-2.00	2	-0.50	5	-2.00	1	0.00	BARLEY5251	-4.50
5	-2.00	2	-0.50	5	-2.00	2	-1.00	BARLEY5252	-5.50
5	-2.00	2	-0.50	5	-2.00	3	-2.00	BARLEY5253	-6.50
5	-2.00	2	-0.50	5	-2.00	4	-3.00	BARLEY5254	-7.50
5	-2.00	2	-0.50	5	-2.00	5	-5.00	BARLEY5255	-9.50
5	-2.00	3	-1.00	1	0.00	1	0.00	BARLEY5311	-3.00
5	-2.00	3	-1.00	1	0.00	2	-1.00	BARLEY5312	-4.00
5	-2.00	3	-1.00	1	0.00	3	-2.00	BARLEY5313	-5.00
5	-2.00	3	-1.00	1	0.00	4	-3.00	BARLEY5314	-6.00
5	-2.00	3	-1.00	1	0.00	5	-5.00	BARLEY5315	-8.00
5	-2.00	3	-1.00	2	-0.50	1	0.00	BARLEY5321	-3.50
5	-2.00	3	-1.00	2	-0.50	2	-1.00	BARLEY5322	-4.50
5	-2.00	3	-1.00	2	-0.50	3	-2.00	BARLEY5323	-5.50
5	-2.00	3	-1.00	2	-0.50	4	-3.00	BARLEY5324	-6.50
5	-2.00	3	-1.00	2	-0.50	5	-5.00	BARLEY5325	-8.50
5	-2.00	3	-1.00	3	-1.00	1	0.00	BARLEY5331	-4.00
5	-2.00	3	-1.00	3	-1.00	2	-1.00	BARLEY5332	-5.00
5	-2.00	3	-1.00	3	-1.00	3	-2.00	BARLEY5333	-6.00
5	-2.00	3	-1.00	3	-1.00	4	-3.00	BARLEY5334	-7.00
5	-2.00	3	-1.00	3	-1.00	5	-5.00	BARLEY5335	-9.00
5	-2.00	3	-1.00	4	-1.50	1	0.00	BARLEY5341	-4.50
5	-2.00	3	-1.00	4	-1.50	2	-1.00	BARLEY5342	-5.50
5	-2.00	3	-1.00	4	-1.50	3	-2.00	BARLEY5343	-6.50
5	-2.00	3	-1.00	4	-1.50	4	-3.00	BARLEY5344	-7.50
5	-2.00	3	-1.00	4	-1.50	5	-5.00	BARLEY5345	-9.50
5	-2.00	3	-1.00	5	-2.00	1	0.00	BARLEY5351	-5.00
5	-2.00	3	-1.00	5	-2.00	2	-1.00	BARLEY5352	-6.00
5	-2.00	3	-1.00	5	-2.00	3	-2.00	BARLEY5353	-7.00
5	-2.00	3	-1.00	5	-2.00	4	-3.00	BARLEY5354	-8.00
									-
5	-2.00	3	-1.00	5	-2.00	5	-5.00	BARLEY5355	10.00
5	-2.00	4	-1.50	1	0.00	1	0.00	BARLEY5411	-3.50
5	-2.00	4	-1.50	1	0.00	2	-1.00	BARLEY5412	-4.50
5	-2.00	4	-1.50	1	0.00	3	-2.00	BARLEY5413	-5.50
5	-2.00	4	-1.50	1	0.00	4	-3.00	BARLEY5414	-6.50
5	-2.00	4	-1.50	1	0.00	5	-5.00	BARLEY5415	-8.50
5	-2.00	4	-1.50	2	-0.50	1	0.00	BARLEY5421	-4.00
5	-2.00	4	-1.50	2	-0.50	2	-1.00	BARLEY5422	-5.00
5	-2.00	4	-1.50	2	-0.50	3	-2.00	BARLEY5423	-6.00
5	-2.00	4	-1.50	2	-0.50	4	-3.00	BARLEY5424	-7.00
5	-2.00	4	-1.50	2	-0.50	5	-5.00	BARLEY5425	-9.00
5	-2.00	4	-1.50	3	-1.00	1	0.00	BARLEY5431	-4.50
5	-2.00	4	-1.50	3	-1.00	2	-1.00	BARLEY5432	-5.50
5	-2.00	4	-1.50	3	-1.00	3	-2.00	BARLEY5433	-6.50

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**Barley  
Product Note**



5	-2.00	4	-1.50	3	-1.00	4	-3.00	BARLEY5434	-7.50
5	-2.00	4	-1.50	3	-1.00	5	-5.00	BARLEY5435	-9.50
5	-2.00	4	-1.50	4	-1.50	1	0.00	BARLEY5441	-5.00
5	-2.00	4	-1.50	4	-1.50	2	-1.00	BARLEY5442	-6.00
5	-2.00	4	-1.50	4	-1.50	3	-2.00	BARLEY5443	-7.00
5	-2.00	4	-1.50	4	-1.50	4	-3.00	BARLEY5444	-8.00
									-
5	-2.00	4	-1.50	4	-1.50	5	-5.00	BARLEY5445	10.00
5	-2.00	4	-1.50	5	-2.00	1	0.00	BARLEY5451	-5.50
5	-2.00	4	-1.50	5	-2.00	2	-1.00	BARLEY5452	-6.50
5	-2.00	4	-1.50	5	-2.00	3	-2.00	BARLEY5453	-7.50
5	-2.00	4	-1.50	5	-2.00	4	-3.00	BARLEY5454	-8.50
									-
5	-2.00	4	-1.50	5	-2.00	5	-5.00	BARLEY5455	10.50

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## **CHAPTER 3 - CLEARING AND SETTLEMENT**

### **Daily Settlement**

All open positions of a futures contract would be settled daily based on the Daily Settlement Price.

### **Daily Settlement Prices**

The Daily Settlement Price (DSP) determined by the Exchange at the end of every trading day. The DSP will be utilized for marking to market all open positions.

### **Final Settlement Prices**

The Final Settlement Price (FSP) will be determined by the Exchange upon maturity of the contract. All open positions on the expiry day of the contract would result in compulsory delivery.

The Final Settlement Price (FSP) shall be arrived at by taking the average of the last three days' spot prices. The last spot price for the day as polled by the Exchange during the last three days shall be taken for arriving at the FSP. In the event of unavailability of the spot prices during any one of the last three days excluding the expiry day (i.e., on E - 1 or E - 2), the spot price of the previous day (E - 3) shall be considered for the average of the last three days. In case spot prices are not available during the 3 day period prior to the expiry date, the last spot price of the expiry day shall be considered for arriving at the FSP.

### **Spot Prices**

NCDEX will announce/ disseminate spot prices for Barley relating to the designated delivery center and specified grade/ quality parameters through the process of polling a set of market participants representing different segments of the value chain.

The polled prices shall be input to a normalizing algorithm (like 'bootstrapping' technique) to arrive at a representative, unbiased and clean 'benchmark' spot price for Barley. The security of data and randomness of polling process will ensure transparency and correctness of prices. Exchange has absolute right to modify the process of determination of spot price at any time without notice.

### **Dissemination of Spot Prices**

Spot prices for Barley will be disseminated on daily basis.

### **Pay in and Pay out for Daily Settlement**

The table below illustrates timings for pay in and pay out in case of daily settlement. The buyer clients would have to deposit requisite funds with their respective Clearing member before "pay in".

All fund debits and credits for the Member would be done in the Member's Settlement Account with the Clearing bank.

<b>Time (T+1)</b>	<b>Activity</b>
On or before 11.00 hrs	PAYIN - Debit paying member a/c for funds
After 13.00 hrs	PAYOUT - Credit receiving member a/c for funds

**Pay in and Pay out for final physical settlement**

The table below illustrates timings for pay in and pay out in case of positions marked for physical settlement. The buyers/ sellers would have to deposit requisite funds/ Barley with their respective Clearing member before “pay in”.

Pay in and Pay out for Final Settlement in case of physical deliveries	
<b>Time (E+2)</b>	<b>Activity</b>
On or before 12.00 hrs	PAYIN - Debit Buyer Member Settlement a/c for funds - Debit Seller Member’s CM Pool Account for Barley
After 14.30 hrs	PAYOUT Credit Seller Member Settlement a/c for funds Credit Buyer Member’s CM Pool Account for Barley

Additionally the supplemental settlement for Barley futures contracts for premium discount adjustment relating to quality of Barley delivered, actual quantity delivered and close out for shortages, will also be conducted on the same day. Clearing members are required to maintain adequate fund balances in their respective accounts.

Pay in and Pay out for supplemental settlement	
<b>Time (E + 2)</b>	<b>Activity</b>
On or before 15.00 hours	PAY IN - Debit Member Settlement a/c for funds
After 15.00 hours	PAY OUT – Credit Member Settlement a/c for funds

**Supplementary Settlement for Taxes**

The Exchange will conduct a separate supplementary settlement, as illustrated below, three days after normal pay out for completion of tax transactions.

In order to facilitate issue of invoice to right parties, the buyer Clearing Members are required to give the buyer client details to the Exchange latest by 15.00 hours on E+3 day failing which the buying member is considered as the end buyer and accordingly invoice is issued in his/their name.

The Seller Clearing Members are required to give the seller client details to the exchange latest by 15.00 hrs on E + 4 day.

The amounts due to the above differences will be debited/ credited to members clearing bank account similar to normal settlement.

Pay in and Pay out for Taxes	
<b>Time (E + 5)</b>	<b>Activity</b>
On or before 11.00 hours	PAY IN: Debit Buyer Member Settlement a/c for funds.
After 11.00 hours	PAY OUT: Credit Seller Member Settlement a/c for funds

For further clarification and detailed procedure on sales tax settlement, participants can refer to circular number NCDEX/CLEARING-001/2008/002 issued on January 04, 2008.

**Exhibit 1 - Futures Contract Specification of Barley  
(Applicable for contracts expiring in July 2010 and thereafter)  
(Updated on January 6, 2011)**

Type of Contract	Futures Contract														
Name of Commodity	Barley														
Ticker symbol	BARLEYJPR														
Trading System	NCDEX Trading System														
Basis	Ex-warehouse Jaipur (Chomu/KukurKheda) gross basis inclusive of all local taxes and levies														
Unit of trading	10 MT														
Delivery unit	10 MT														
Quotation/base value	Rs per quintal														
Tick size	Re. 0.20														
Quality specification	<p>Barley as per the following specification shall be acceptable for delivery :</p> <table border="1"> <tr> <td>Moisture</td> <td>10% basis</td> </tr> <tr> <td>Damaged including Discoloured (black tipped/ black cornered only)</td> <td>3% basis</td> </tr> <tr> <td>Weeviled</td> <td>1% Max</td> </tr> <tr> <td>Foreign Matter</td> <td>(Extraneous Matter)-Not more than 1 % by weight, of which not more than 0.25% by weight shall be mineral matter and not more than 0.10 % by weight, shall be impurities of animal origin.</td> </tr> <tr> <td>Other food grains</td> <td>1% Max</td> </tr> <tr> <td>Broken Kernels</td> <td>3% basis</td> </tr> <tr> <td>TCW (weight of thousand grains)</td> <td>40 gm basis</td> </tr> </table>	Moisture	10% basis	Damaged including Discoloured (black tipped/ black cornered only)	3% basis	Weeviled	1% Max	Foreign Matter	(Extraneous Matter)-Not more than 1 % by weight, of which not more than 0.25% by weight shall be mineral matter and not more than 0.10 % by weight, shall be impurities of animal origin.	Other food grains	1% Max	Broken Kernels	3% basis	TCW (weight of thousand grains)	40 gm basis
Moisture	10% basis														
Damaged including Discoloured (black tipped/ black cornered only)	3% basis														
Weeviled	1% Max														
Foreign Matter	(Extraneous Matter)-Not more than 1 % by weight, of which not more than 0.25% by weight shall be mineral matter and not more than 0.10 % by weight, shall be impurities of animal origin.														
Other food grains	1% Max														
Broken Kernels	3% basis														
TCW (weight of thousand grains)	40 gm basis														
Quantity variation	+/- 5 %														

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Basis Delivery centre	Jaipur (Chomu/Kukurkheda) (Up to 50 km radius from the municipal limits)
Additional delivery centres	Sri Madhopur, Sri Ganganagar ,Hanumangarh and Rewari (Up to 50 km radius from the municipal limits) at a premium/discount as announced by the Exchange from time to time
Hours of Trading	As per directions of the Forward Markets Commission from time to time, currently - <b>Mondays through Fridays</b> - 10:00 AM to 5:00 PM <b>Saturdays</b> - 10.00 AM to 2.00 PM The Exchange may vary the above timing with due notice
Delivery specification	Upon expiry of the contract, all outstanding open positions would result in compulsory delivery.  The penalty structure for failure to meet delivery obligations will be as per circular no. NCDEX/TRADING-086/2008/216 dated September 16, 2008.
Opening of contracts	Trading in a new month contract to open on the 10th day of the month. If the 10th day happens to be a non-trading day, contracts would open on the next trading day
Due date/Expiry date	20th day of the delivery month  If 20th happens to be a holiday, a Saturday or a Sunday then the due date shall be the immediately preceding trading day (other than a Saturday) of the Exchange
Closing of contract	Upon the expiry of contract all the outstanding open position would result in compulsory delivery
No. of active contracts	As per launch calendar
Price band	Daily price fluctuation limit is (+/-) 2%. If the trade hits the prescribed daily price limit there will be a cooling off period for 15 minutes. Trade will be allowed during this cooling off period within the price band. Thereafter, the price band shall be raised by another (+/-) 2% and trade will be resumed. If the price hits the revised price band again during the day, trade will only be allowed within the revised price band. No trade/order shall be permitted during the day beyond the revised limit of (+/-) 4%.

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	<p>On the first day, the limit on daily price fluctuation will be reckoned with reference to the opening price. On the second and subsequent days, the daily price fluctuation limit will be reckoned with reference to the mark-to-market rate of the previous closing day.</p>
<p>Position Limits</p>	<p>Member-wise: 32,500 MT or 15% of market wide open position whichever is higher.</p> <p>Client-wise: 6,500 MT</p> <p>The above limits will not apply to bona fide hedgers. For bonafide hedgers, the Exchange will, on a case to case basis, decide the hedge limits. Please refer to Circular No. NCDEX/TRADING-100/2005/219 dated October 20,2005</p> <p>For near month contracts : The following limits would be applicable from one month prior to expiry date of a contract</p> <p>Member: Maximum of 6,500 MT or 15% of market-wide near month open position whichever is higher Client: Maximum of 1300 MT</p>
<p>Special margins</p>	<p>In case of additional volatility, a special margin at such other percentage, as deemed fit, will be imposed in respect of outstanding positions, which will remain in force as long as the volatility exists, after which the special margin may be relaxed.</p>
<p>Premium/Discount</p>	<p><b>Location Premium/Discount:</b></p> <p>The premium or discount for Rewari, Srimadhapur, Hanumangarh and Sri Ganganagar vis-a-vis the basis center, would be announced by the Exchange before launching of any new contracts</p> <p><b>Quality Premium/Discount for all the months:</b></p> <p>Quality variance is acceptable in specifications for Moisture, Damaged including discoloured (black tipped) , <b>Weeviled Grains</b>, Foreign Matter, TCW (thousand corn weight) only with discounts as follows:</p> <p><b>Moisture :</b></p> <p>Moisture above 10% but up to 12% shall be accepted with rebate on 1:1 basis.</p> <p>Moisture above 12% - rejected</p>

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	<p><b>Damaged including Discoloured (black tipped/black cornered only)</b></p> <p>Damaged including {Discoloured (black tipped/ black cornered only) above 3% but up to 4.5% shall be accepted with rebate on 1:1 basis which shall be applied to such content rounded off to the higher 0.5%.</p> <p><b>Broken Kernels</b> Broken kernels above 3% but up to 5% shall be accepted with rebate on 1:1 basis which shall be applied to such content rounded off to the higher 0.5%.</p> <p>Broken kernels more than 5% - Rejected</p> <p><b>TCW (Weight for thousand kernels)</b> TCW will be 40 gram basis. Acceptable up to 37 gram with rebate on 1:1 basis and up to 36 gm with rebate on 1:2 basis</p>
<p><b>Final Settlement Price</b></p>	<p>The Final Settlement Price (FSP) shall be arrived at by taking the average of the last three days' spot prices.</p> <p>The last spot price for the day as polled by the Exchange during the last three days shall be taken for arriving at the FSP.</p> <p>In the event of unavailability of the spot prices during any one of the last three days excluding the expiry day (i.e., on E - 1 or E - 2), the spot price of the previous day (E - 3) shall be considered for the average of the last three days. In case spot prices are not available during the 3 day period prior to the expiry date, the last spot price of the expiry day shall be considered for arriving at the FSP</p>

**Tolerance Limit:-**

<b>Commodity Specifications</b>	<b>Basis</b>	<b>Acceptable quality range as per contract specification</b>	<b>Permissible Tolerance</b>
Moisture	10% basis	12% max	
Damaged including Discolored (black tipped/black cornered only)	3% basis	4.5% max	+/- 0.5%
Foreign Matter	(Extraneous Matter) - Not more than 1 % by weight, of which not more than 0.25% by weight shall be mineral matter and not more than 0.10 % by weight shall be impurities of animal origin.	-	-
Weeviled Grains	1% Max	-	+/- 0.5%
Other Food Grains	1% Max	-	-
Broken Kernels	3% basis	5% max	+/- 0.25%
TCW (weight of thousand grains)	40 gm basis	36 gm max	+/- 0.5%
Max Tolerance (for all characteristics)			+/- 1.00%

**Note:** Tolerance limit is applicable only for outbound deliveries. Variation in quality parameters within the prescribed tolerance limit as above will be treated as good delivery when members/clients lift the materials from warehouse. These permissible variations shall be based on the parameters found as per the immediate preceding test certificate given by NCDEX empanelled assayer.

**Contract Launch Calendar:-**

<b>Contract launch Month</b>	<b>Contract Expiry Month</b>
October 2010	March 2011
November 2010	April 2011
December 2010	May 2011
January 2011	No Launch
February 2011	No Launch
March 2011	June 2011
April 2011	July 2011
May 2011	August 2011
June 2011	September 2011
July 2011	October 2011
August 2011	November 2011
September 2011	December 2011

**Exhibit 2 - Warehouse address for delivery of Barley**

<b>Warehouse Name</b>	<b>Assayer Name</b>
<p><b>NCMSLGHANLATH-JAIPUR</b> NCMSL COMMODITY MULTILINK POINT C/O GHANSILAL S/O LATHU LAL, LINK ROAD, BAGRU, TAHSIL SANGNER, JAIPUR-303007, RAJASTHAN <b>CONTACT PERSONS:</b> MR. ANIL PANWAR MOBILE: 09352965033 MR. SUARABH JAIN MOBILE: 09309043012</p>	<p><b>NATIONAL COLLATERAL MANAGEMENT SERVICES LIMITED</b> (TESTING &amp; CERTIFYING DIVISION) 4-7-18/6B, NACHARAM, RAGHAVENDRA NAGAR, HYDERABAD- 500 076, ANDHRA PRADESH. <b>CONTACT PERSONS:</b> DR. GANESH RAMAMURTHI MOBILE – 093477 82507 MR. P. SRINIVAS MOBILE - 093477 82508 TEL: 040-32939701</p>
<p><b>LTCSBG FLOUR-HANUMANGARH LTC COMMERCIAL COMPANY PRIVATE LIMITED</b> C/O SBG FLOUR MILL PLOT NO. G-37, 38, SANGARIA, HANUMANGARH - 335063, RAJASTHAN <b>CONTACT PERSON:</b> MR. RAJESH SARASWAT MOBILE: 09414142357 MR. T.R. KAYAL MOBILE: 09413380519 MR. S.L. TAWANIYA MOBILE: 09460165136</p>	<p><b>LTC COMMERCIAL COMPANY PRIVATE LIMITED</b> (TESTING &amp; CERTIFYING DIVISION) SAMATA NAGAR BIKANER-334 002 RAJASTHAN INDIA <b>CONTACT PERSON :</b> RAMPAL SARASWAT: 9413380521 B.L.SWAMI: 9413380520</p>
<p><b>JICSDAYARAMPOONIA-JAIPUR JICS LOGISTICS</b> C/O DAYARAM POONIA RAMCHANDRAPURA, MAHAPURA, SANGANER, JAIPUR - 302026, RAJASTHAN <b>CONTACT PERSON:</b> MR. JAGWEER SINGH MOBILE: 09309 058113 MR. GOVIND SABOO MOBILE: 09324246515</p>	<p><b>M/S JICS LABORATORIES</b> 13-B, SECTOR A, SANVER ROAD, INDORE- 452015 MADHYA PRADESH <b>CONTACT PERSON:</b> MR. ANIL JHAWAR MOBILE: 098930 25380/ 0731- 3290929</p>
<p><b>SSLSS-SRIGANGANAGAR SHREE SHUBHAM LOGISTICS LIMITED</b> C/O SHREE SHUBHAM LOGISTICS LIMITED, CHAK-1-G CHHOTI, KHASRA NO. 12, KILLA NO. 3 TO 8, 11, 12 &amp; 13 TO 15, SRI GANGANAGAR-335001, RAJASTHAN <b>CONTACT PERSON:</b> MR. KAMAL MIDDHA MOBILE – 09587018009/ 01543200818.</p>	<p><b>SHREE SHUBHAM LOGISTICS LIMITED</b> (ANALYSIS AND CERTIFICATION LABORATORY) C/O SHREE SHUBHAM LOGISTICS LIMITED, KHASRA NO.183/1,2,3,4, VILLAGE – SALAWAS, TEHSIL– LUNI, JODHPUR- 342802, RAJASTHAN <b>CONTACT PERSON:</b> MR. ANIL MAURYA</p>

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**Barley  
Product Note**



	MOBILE – 09930253109 EMAIL ID: anil.maurya@
<b>SWCMLJANEJA-SRIGANGANAGAR STARAGRI WAREHOUSING &amp; COLLATERAL MANAGEMENT LTD.</b> C/O J.D. ANEJA EDIBLES PVT. LTD. NO - 2, E-336, 336 A, AGRO FOOD PARK, SRIGANGANAGAR-335001 RAJASTHAN <b>CONTACT PERSONS:</b> MR. KULWINDER RAMANA MOBILE:09351796825	<b>STAR AGRIWAREHOUSING &amp; COLLATERAL MANAGEMENT LTD</b> MOLSHREE RESIDENCY, PLOT NO 29, G-102, MISSION COMPOUND, AJMER ROAD, JAIPUR <b>CONTACT PERSON:</b> MR. AMIT KUMAR GOYAL MOBILE: 09314093765 MR. YOGENDRA GUPTA MOBILE: 09351796804 CONTACT NO-0141-2371079

For the updated list of Warehouse & Assayers kindly refer to "Accredited Warehouses for delivery" on NCDEX Website  
[http://www.ncdex.com/ClearingServices/Clearing\\_Services\\_others.aspx](http://www.ncdex.com/ClearingServices/Clearing_Services_others.aspx)

**Exhibit 3- Good / Bad delivery norms for acceptance of Commodity at warehouse**

No.	Particulars	Good / Bad delivery
1.	Quality not meeting futures contract specification.	Bad delivery
2.	Delivery at non designated warehouse.	Bad delivery
3.	Delivery completed but without sampling & testing / certification / expired validity.	Bad delivery
4.	Delivery without weight certificate.	Bad delivery
5.	Weighed at other weighbridge than designated by accredited warehouse	Bad delivery
6.	When sample is not drawn as per sampling norms and not carried out at the time of unloading	Bad delivery
7.	Delivery not as per the packaging specification	Bad delivery
8.	Delivery found contaminated on visual inspection	Bad delivery

**Exhibit 4- Specimen of Assayer certificate**

CERTIFICATE OF QUALITY			
Date : _____			Report no.:
NCDEX Member :			
Commodity :			
Lorry No. :			
Lot no.			
<b>QUALITY :</b>			
The results of analysis performed by our laboratory of the samples collected by Kerala State Warehousing Corporation is stated below :			
Test Items	Test method	Specification	Test results
The material delivered by the above NCDEX member is in accordance with the specification provided bearing grade _____ and valid up to _____.			
The goods delivered may be <b>accepted / rejected</b> .			
Chief Inspector / Authorized Signatory			