

Trade Notice No: APEDA/Q/2010 Dated: 6th September 2010
(Revised on 24.11.2010)

**REGULATION OF EXPORT OF
PEANUTS AND PEANUT PRODUCTS
TO THE EUROPEAN UNION
THROUGH CONTROL OF
AFLATOXINS**



**Agricultural and Processed Food Products
Export Development Authority**

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REGULATION OF EXPORT OF PEANUTS AND PEANUT PRODUCTS TO THE EUROPEAN UNION THROUGH CONTROL OF AFLATOXINS

Background

Higher levels of aflatoxins in groundnuts have been major concern of the EU. Therefore, it is essential to establish adequate controls to eliminate possibilities of presence of the aflatoxins in groundnuts in excess of prescribed levels. As per the powers conferred by the Government of India, Ministry of Commerce and Industry, Department of Commerce vide Notification No. 37/2009-2014 dated 9th April, 2010 issued under the Section 5 of the Foreign Trade (Development & Regulation) Act, 1992 as published in the Gazette of India and amendments thereof. Export of groundnuts (peanuts) to the EU countries permitted subject to compulsory registration of contracts with APEDA, alongwith controlled aflatoxins level certificate given by the agencies/laboratories nominated by APEDA. APEDA nominates Indian Oilseeds and Produce Export Promotion Council (IOPEPC) to implement the following procedures:

1.	Objectives	1.1	To establish a system for controlling aflatoxin levels in all peanuts & peanut products (hereinafter called PPP) in this document.
		1.2	To establish a system of appropriate labeling in each bag/package/lot/pallet of PPP for exports.
		1.3	To ensure that PPP exported from India do not test for aflatoxin in excess of the prescribed levels.
2.	Scope	2.1	All processors and exporters of PPP including merchant-exporters intending to export PPP recognized processing units, shelling & or grading units, godown/storages warehouses, authorized laboratories for drawls of samples and testing of aflatoxins in PPP, National Referral Laboratory shall get covered under this document.
		2.2	European Union includes countries such as Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom as well as other countries following EU food safety norms.

		2.3	<p>The following categories of peanut & peanut products for exports shall be covered under this procedure:</p> <ul style="list-style-type: none"> (i) Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year). (ii) Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year). (iii) Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year). (iv) Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
		2.4	<p>The exporter shall label/mark and declare intended use of the products as per above categories.</p>
		2.5	<p>Following Tariff items HS codes and item description pertaining to PPP shall cover under the scope of this document:</p>

			<table border="1"> <thead> <tr> <th>Tariff Item HS Code</th> <th>Item description</th> </tr> </thead> <tbody> <tr> <td>12021000</td> <td>Groundnuts (peanuts) and their products including in-shell</td> </tr> <tr> <td>12021010</td> <td>Groundnut of seed quality</td> </tr> <tr> <td>12021011</td> <td>HPS Groundnuts in shell, not roasted/seed quality</td> </tr> <tr> <td>12021019</td> <td>Other Groundnuts</td> </tr> <tr> <td>12021091</td> <td>Groundnuts of seed quality</td> </tr> <tr> <td>12021099</td> <td>Groundnuts others</td> </tr> <tr> <td>12022010</td> <td>HPS Kernels</td> </tr> <tr> <td>12022090</td> <td>Other Groundnuts HPS</td> </tr> <tr> <td>15179020</td> <td>Peanut butter</td> </tr> <tr> <td>20081100</td> <td>Groundnuts</td> </tr> <tr> <td>21069099</td> <td>Other food preparations containing (Groundnuts and groundnut products)</td> </tr> </tbody> </table>	Tariff Item HS Code	Item description	12021000	Groundnuts (peanuts) and their products including in-shell	12021010	Groundnut of seed quality	12021011	HPS Groundnuts in shell, not roasted/seed quality	12021019	Other Groundnuts	12021091	Groundnuts of seed quality	12021099	Groundnuts others	12022010	HPS Kernels	12022090	Other Groundnuts HPS	15179020	Peanut butter	20081100	Groundnuts	21069099	Other food preparations containing (Groundnuts and groundnut products)
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3.	Procedure for recognition of processing, shelling & or grading units and godowns/storage	3.1	All exporters of peanut and peanut products, peanut shelling, grading, processing, godowns, storage shall be registered with IOPEPC as per the laid down procedure.																								
		3.2	All peanut and peanut products, peanut shelling, grading, processing, godowns, storage including those intending to export these products in any form for direct human consumption or as an ingredient in foodstuffs or further processing or animal or bird consumption intending to export directly or supply to exporter shall submit their applications to IOPEPC.																								
		3.3	Groundnut processing facilities recognized by APEDA shall be deemed to be recognized by IOPEPC until the expiry of their recognition. Thereafter they shall apply to IOPEPC.																								
		3.4	PPP shall be allowed for exports for all categories from IOPEPC recognized facilities.																								
4.	Procedure for sampling analysis and export of PPP	4.1	PPP meant for exports shall be subject to issuance of Certificate of Exports by IOPEPC.																								

		4.2	All Exporters/IOPEPC recognised PPP processing units shall apply to authorized laboratories for drawl and testing of PPP samples for aflatoxins as per the format of sample slip given in Annexure-I .
		4.3	In case of categories (i) & (ii), the sampling shall be carried out only at the finished product storage of the processing units. In the case of categories (iii) & (iv) the sampling could be carried out at the finished product storage of the processing units or at the finished product godown/storage. All the facilities where sampling is done shall be recognized by IOPEPC.
		4.4	<p>A list of authorized laboratories is given in Annexure-II. All authorized laboratories shall draw samples for analysis of PPP as per the method of sampling given in respective regulations of EU and UK for intended uses of PPP as declared by the exporters. The method of sampling to be followed is based on the EU and UK regulations as given in Annexure-III. The EU and UK regulations are as follows:</p> <p>(i) For consignments of PPP meant for exports to the EU and UK Commission Regulation (EC) No. 178/2010 of 2 March 2010 amending Commission Regulation (EC) No. 401/2006 of 23 February 2006.</p> <p>(ii) For consignments of PPP for feed stuffs meant for export to EU countries except UK, Commission Regulation (EC) No. 152/2009 of 27 January 2009.</p> <p>(iii) For consignments of PPP for feed stuffs meant for exports to UK, Feeding Stuffs (England) UK, Regulations 2010, statutory instrument 2010 No.2280, feed procedure and testing of feed (sampling & analysis) http://www.opsi.gov.uk.</p>
		4.5	All the authorized laboratories shall analyze samples of PPP for the levels of aflatoxin as given in Annexure-IV based on Commission Regulation (EU) No 165/2010 of 26.02.2010 amending Regulation (EC) No. 1881/2006 setting maximum levels for certain contaminants in foodstuffs as regards aflatoxins and Commission Regulation (EC) No 2174/2003 of 12.12.2003 laying down maximum levels of mycotoxins in groundnuts.

		4.6	In case the consignment intended for export falls in category (iii) & (iv) of para 2.3, each bag/package must be printed with the words, “For animal and bird consumption only”.
		4.7	After drawl of the samples, the representative of the authorized laboratory shall label each bag/package/lot/pallet of PPP in the lot with the help of one time use plastic wire locking seal or an appropriate numbered sticker in case of categories (i) & (ii) and stack seal in case of categories (iii) & (iv) as given in para 2.3 above. In case of bulk-in-container, the container shall also be sealed.
		4.8	After sampling, the bags/lot/pallet shall not be shifted/relocated by the processing unit/exporter to another location without the prior consent of the concerned laboratory. Shifting/relocation should be done in the presence of the laboratory and resealing should be done.
		4.9	The authorized laboratories shall test PPP for determination of Aflatoxin contents as per the method of analysis prescribed by NRL for all the categories ensuring that the precision and recovery in the method used meets the requirements of the importing countries laying down the methods of sampling and analysis for control of aflatoxins.
		4.10	The authorized laboratories shall issue certificate of analysis to the exporter/processing unit as per the format given in Annexure-V . The laboratory shall declare that the sampling has been done in the IOPEPC recognized PPP processing unit, shelling & or grading unit, godown/storage.
		4.11	Exporters/processing units shall not export PPP, samples of which does not conform laboratory test.
		4.12	In case, the samples exceed the aflatoxin levels, the authorized laboratories shall immediately (within 24 hours of completion of analysis) bring the matter to the notice of exporter/processor, NRL, IOPEPC along with a copy of the test report giving details of the exporters and the aflatoxin levels. In case of failed samples the laboratories shall send the chromatograms, etc. to the NRL and exporter by email/speed-post/courier.

		4.13	All exporters/recognized processing units of PPP shall apply to IOPEPC for issue of "Certificate of Export" in format given in Annexure-VI along with processing fee of Rs. 40 per MT + applicable statutory levies in favour of IOPEPC.
		4.14	The Certificate of Export for export of PPP shall be issued by IOPEPC only if the Certificate of Analysis indicates that the Aflatoxin level in the sample is within the prescribed limits.
		4.15	The stuffing/loading of the containers shall be carried out after issue of the Certificate of Exports.
		4.16	The loading/stuffing of laboratory cleared PPP in the container for shipment purpose shall be done under the supervision of the concerned laboratory at the same premises where the sampling was carried out.
		4.17	With regard to failed samples, the processor/ exporter shall not effect export shipment and shall also initiate necessary corrective action.
5.	Recognition & responsibility of Authorized Laboratories	5.1	All the authorized laboratories shall be ISO/IEC-17025 accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) alongwith scope of testing for aflatoxins.
		5.2	All the authorized laboratories shall have APEDA recognition under its scheme for laboratory recognition.
		5.3	The authorized laboratories shall develop, sensitize and validate their method of sampling and analysis of PPP to comply with the procedure.
		5.4	The authorized laboratories shall submit a monthly statement of samples tested and containers stuffed/loaded to the IOPEPC and NRL as per form given in Annexure-VII .
		5.5	While sending/emailing the test report to the exporter/PPP unit, the authorized laboratories shall email copy of test reports issued by them to NRL alongwith copy of chromatogram.
6	Responsibilities of National Referral Laboratory (NRL)	6.1	Indian Institute of Integrative Medicine (IIIM formerly RRL Jammu) would be National Referral Laboratory (NRL). The NRL shall monitor work of authorized

			laboratories by conducting surveillance audit periodically to ascertain that they are following the criteria laid down in this document.
		6.2	The NRL shall audit minimum 10% of the analysis documents of the samples tested by the authorized laboratories and maintain a record. On the basis of the audit, the NRL shall prepare a plan of action for the next year.
		6.3	The NRL shall, at regular intervals during the season, obtain 2% of the total prepared samples from the authorized laboratories for the purpose of verification of analysis. The NRL shall analyze these samples and maintain report and their findings as per the format given in Annexure-V.
		6.4	NRL shall submit to IOPEPC a quarterly statement of consolidated test reports received from the authorized laboratories as per Annexure-VIII along with a complete analysis of the statistical data for corrective action and for continuous upgradation of these procedures for the following year.
		6.5	Method of sampling and analysis shall be prescribed by the NRL.
		6.6	The NRL shall update itself on the amendments pertaining to the aflatoxin levels of the importing countries, with the help of the industry. It will verify this information and disseminate it to IOPEPC and the authorized laboratories.
		6.7	On the basis of analysis of data provided by the laboratories, the NRL shall prepare and organize a calendar of training and awareness programmes for the processors and laboratories.
		6.8	The NRL shall prepare a calendar of training on testing procedures, methods of analysis, etc. for each contaminant or group of contaminants for the authorized laboratories.
		6.9	The NRL shall prepare a calendar and organize proficiency/inter-laboratory testing for the authorized laboratories.
		6.10	In cases, where aflatoxin contents are found to be higher than the permitted levels, it will issue "Internal

			Alert Information” as per format given in Annexure-IX . This alert shall be issued without any delay. It will advise the exporters, IOPEPC and authorized laboratories about the control measures required to be taken.
		6.11	In case, the samples on re-testing passes the requirement, the NRL shall without delay revoke the Internal Alert information, which shall take effect on that date. In this regard, the NRL shall intimate all concerned about the new status.
		6.12	The NRL shall submit an annual report to APEDA in the month of April every year.
7.	Powers of NRL	7.1	The NRL shall have the right to draw samples from registered PPP and authorized laboratories.
		7.2	The NRL shall have the right to verify analysis data corresponding to the samples drawn and/or tested by the authorized laboratories.
		7.3	The NRL shall have the authority to recommend to APEDA and/or NABL, derecognition of authorized laboratories in the event of non-compliance with the method of sampling and analysis for PPP.
		7.4	The NRL shall have the authority to inspect/audit the authorized laboratories and their analysis records without prior notice.
8.	Functions of IOPEPC	8.1	On receipt of applications, IOPEPC shall receive process and issue Certificate of Export in the format given in Annexure-VII after ensuring that the laboratory test report meets the requirements of this document and that processing and packaging has been carried out in a peanut processing unit having valid IOPEPC recognition, where applicable.
		8.2	In case any amendment(s) in the Certificate of Export is/are required, the processor/exporter will apply to IOPEPC for effecting the amendment. The original and all copies of the certificate issued to the processor/exporter will have to be submitted for this purpose.
		8.3	On receipt of laboratory test reports of failed samples (para 4.12) from the laboratories, IOPEPC shall immediately advise the concerned processors/

			exporters not to effect shipment to the EU and also take necessary corrective steps. IOPEPC shall ensure that no “Certificates of Exports” are issued in respect of PPP covered by such test reports.
		8.4	IOPEPC shall submit to APEDA, a monthly statement of contract registered for exports of PPP by the 15 th of the following month.
		8.5	IOPEPC shall organise training/awareness programmes for the farmers and processors for control of aflatoxins and improvement in hygiene.
		8.6	IOPEPC shall regularly update itself in respect of the amendments pertaining to the aflatoxin levels prescribed by the importing countries, specially the EU and keep the industry, laboratories and APEDA informed of such changes. The exporters also keep themselves aware of the changes being made in the EU/UK regulations governing control of aflatoxins in PPP and inform to IOPEPC/NRL/APEDA.
9.	Functions of APEDA	9.1	APEDA shall monitor functioning of IOPEPC, authorized laboratories, etc. from time to time as demanded by the stakeholders.
		9.2	Where necessary, APEDA shall nominate a Committee consisting of representatives of APEDA, IOPEPC, NRL, State Government(s), Directorate of Groundnut Research (DGR), designated labs etc. to ascertain the veracity of an issue/document or for any other purpose in the interest of export of PPP.
10	Procedure for issuance of certificate of exports	10.1	Certificate of Exports shall be issued to the applicant exporter/processor by IOPEPC in the format as given in Annexure-X .
		10.2	After loading/stuffing of the container, the laboratory shall provide a Container Stuffing/ Loading Certificate to the shipper in the format given in Annexure-XI .
		10.3	Certificate of exports shall be issued by IOPEPC to the exporter/processor for the quantity that qualify aflatoxin test based on the test report issued by the authorized laboratory stating that the processing and packaging has been carried out in a processing unit/warehouse recognized by IOPEPC with recognition number, where applicable.

11	Procedure for dealing with complaints and rejections	11.1	Procedure for dealing with PPP complaints and rejections from the importing countries and for establishing corrective actions shall be governed by guidelines to be established by IOPEPC.
		11.2	IOPEPC shall also implement the guidelines referred in para 11.1 above and provide necessary instructions to the stakeholders.
12	Penal Provisions	12.1	<p>In the event of breach of procedures given in this document, IOPEPC shall take following necessary action:</p> <ul style="list-style-type: none"> a) Cancellation of Registration-cum-Membership Certificate of exporters. b) Derecognition of PPP processing, shelling, grading units/warehouses units. c) Notifying to DGFT for cancellation of Import-Export Code Number allocated to such exporters. d) Any other action as deemed fit.
		12.2	<p>In the event of breach of procedures given in this document, APEDA may initiate action as per the provisions of section 19(3), Chapter-V of the APEDA Act, 1985, extract given in Annexure-XII, and as per powers conferred vide Notification No. 37/2009-2014 dated 9th April, 2010 issued under the Section 5 of the Foreign Trade (Development & Regulation) Act, 1992 as published in the Gazette of India and amendments thereof in addition to followings:</p> <ul style="list-style-type: none"> a) Cancellation of Registration-cum-Membership Certificate of exporters. b) Notifying to DGFT for cancellation of Import-Export Code Number allocated to such exporters. c) Any other action as deemed fit.

Place: New Delhi
Date: 06.09.2010

(Asit Tripathy)
Chairman, APEDA

SAMPLE SLIP OF PEANUTS & PEANUT PRODUCTS

1	Sample Slip No.	
2	Name & Address of the exporter	
3	APEDA RCMC No. of the exporter	
4	IOPEPC RCMC No. of the exporter	
5	Name & Address of the PPP processing unit	
6	IOPEPC Recognition No. of the PPP processing unit	
7	IOPEPC Recognition No. of shelling & or grading and godown/storage unit	
8	Consignment details: Lot No. Number of bags/packages Quantity (MT) Date of packing	
9	Grade and variety of the produce	
10	Use intended by importer (<i>tick whichever is applicable</i>) (i) Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year). (ii) Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year). (iii) Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year). (iv) Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as	

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Date:
Place:

Signature of Exporter
(Name of Exporter)

CERTIFICATE

1. This is to certify that, I have drawn this sample personally from the above mentioned IOPEPC recognised processing unit/shelling & or grading unit/ godown/storage (as applicable) of the exporter by adopting the procedure given in Annexure-III.

2. I have sealed the consignment bearing seal Nos. as follows:

Lot No.	Number of bags	Quantity (MT)	Date of sealing	Seal No.

3. It is certified that the sampling has been done at the finished product storage premises as per **para 4.3** of the document.

4. Address and location of drawl of samples: _____

5. I have also verified the IOPEPC recognition of processing unit/ shelling & or grading unit/ godown/storage where applicable.

6. As on date, APEDA recognition of this laboratory is valid.

Date:
Place:

Signature :
Name of authorized :
Representative of
Authorized Laboratory
Official address :

LIST OF AUTHORIZED LABORATORIES

Sr. No.	Name of the laboratory	Status of the laboratory
	Indian Institute of Integrative Medicine (Formerly Regional Research Laboratory) Council for Scientific and Industrial Research (CSIR) Quality Control & Assurance Division Canal Road, Jammu Tawi 180 001 (M) 09419195479 Tel: 0191-2569000-06, Fax: 091-191-2569333 jkdhar@iim.res.in;jkdhar011@yahoo.co.in	National Referral Laboratory
1	Arbro Pharmaceuticals Limited Analytical Division 4/9 Kirti Nagar Industrial Area New Delhi 110 015 Tel : 011-45754575, 9871700488; Fax: 011-45754545 arbrolab@arbropharma.com; saurabharora@arbropharma.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
2	Delhi Test House A-62/3 G. T. Karnal Road Industrial Area Opp Hans Cinema Azadpur Delhi 110 033 Tel : 011-27437327, 27435509, 27427672, Telefax: 011-27435509, 27437327 info@delhitesthouse.com; dg@delhitesthouse.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
3	Shriram Institute for Industrial Research 19 University Road Delhi 110007 Tel: 011-27667267, 27667860, 27667436 Fax: 011-27667676, 27667207 sridlhi@vsnl.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
4	Doctors' Analytical Laboratories Pvt. Ltd. Gat No. 41 Advocate Pansare Building Near Nerolac Paint Godown A/P Bhukum Tal Mulshi Pune 411 042 Tel: 020-20291144, 32523374, 66541800 Fax: 020-66541898 doctors5lab@yahoo.com; drabhay@satyam.net.in;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
5	Geo Chem Laboratories Pvt. Ltd. 36 Raja Industrial Estate Purushottam Kheraj Marg Mulund (West) Mumbai 400 080 Tel: 022-67974999 Fax: 022-67974616 neel@geochemgroup.com; sureshbabu@geochemgroup.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory

6	MicroChem Laboratory Pvt. Ltd. MicroChem House A-513 TTC Industrial Area MIDC Mahape Navi Mumbai 400 701 Tel: 022-27787800 deepa@microchem.co.in; customercare@microchem.co.in;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
7	Reliable Analytical Laboratories Pvt. Ltd. 125/139 Indian Corporation Mankoli Gundavli Bhiwandi Thane 421 302 Tel: 02522-398100 renu@reliablelabs.org; meenal@reliablelabs.org;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
8	Shriram Institute for Industrial Research 14-15, Sadarmangla Industrial Area, Whitefield Road, Bangalore – 560 048. Tel: 080- 28410172, 28410165/166/167 Fax :080- 28410189 sribglr@vsnl.com	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
9	Sargam Laboratory Pvt. Ltd. 2, Ramavaram Road Manapakkam Chennai 600 089 Tel: 044-22491117, 22496736 Fax: 044-22491651 enquiry@sargamlabs.com; accounts@sargamlabs.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
10	SGS India Pvt. Ltd. 1/509 A Old Mahabalipuram Road (Opp) Government School Post Thoraipakkam Chennai 600 079 Tel: 044-24962822, 24963844 Fax: 044-24963075 Av.Abraham@sgs.com; K.Alagesan@sgs.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
11	T A Labs Private Limited No. 17 New Street Kottur Chennai 600 085 Tel:044-24474505,64551505 ubharatraj@trueanalytica.com; talabs@trueanalytica.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
12	Interfield Laboratories XIII/1208, Interprint House Kochi 682 005 Tel: 0484-2217865, 2210915, 221838 mail@interfieldlaboratories.com	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
13	Choksi Laboratories Limited 6/3 Manoramaganj, Indore 452 001 Tel: 0731-4243888, 2493592/3 Fax: 0731-2490593 v.choksi@choksilab.com; indore@choksilab.com	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory

14	SGS India Pvt. Ltd. 201, Sumel II, Near Gurudwara Thaltej Cross Road SG Highway Ahmedabad 380 054 Tel: 07926854360, Fax: 07926854380 joseph.lopez@sgs.com	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
15	Shiva Analyticals (India) Limited Plot Bo. 24D (P) & 34D KIABD Industrial Area Hoskote-562 114 Tel: 080-27971322, Fax: 080-27971321 info@shivatech-india.com	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
16	National Collateral Management Services Limited (NCMSL) D. No. 4-7-18/6B 2 nd Floor Raghavendra Nagar Nacharam Hyderabad 500 076 Tel: 040-27176840 Ganesh.r@ncmsl.com; vidya.k@ncmsl.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
17	Sipra Labs Limited 7-2-1813/5/A Adjacent to Post Office Industrial Estate Sanatnagar Hyderabad 500 018 Tel: 040-23802004 Fax: 040-23802005 director@sipralabs.com; sipra@sipralabs.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory
18	Vimta Labs Ltd. Plot No. 5 SP Biotech Park Genome Valley Shameerpet Mandal RR District Hyderabad 500 078 Tel: 040-39848484 Fax: 040-27263657 Ashutosh.Mittal@vimta.com; quality@vimta.com; crm@vimta.com;	ISO/IEC-17025, NABL accredited, APEDA recognised laboratory

METHOD OF SAMPLING & ANALYSIS

(Please refer to para 4.4 of this document)

- 1 Following method of sampling of PPP meant for exports to the EU countries for food & feed and for feeding stuff to UK shall apply:
 - (i) For consignments of PPP meant for exports to the EU and UK Commission Regulation (EC) No. 178/2010 of 2 March 2010 amending Commission Regulation (EC) No. 401/2006 of 23 February 2006.
 - (ii) For consignments of PPP for feed stuffs meant for export to EU countries except UK, Commission Regulation (EC) No. 152/2009 of 27 January 2009.
 - (iii) For consignments of PPP for feed stuffs meant for exports to UK, Feeding Stuffs (England) UK, Regulations 2010, statutory instrument 2010 No.2280, feed procedure and testing of feed (sampling & analysis) <http://www.opsi.gov.uk>.
- (i) For consignments of PPP meant for exports to the EU and UK Commission Regulation (EC) No. 178/2010 of 2 March 2010 amending Commission Regulation (EC) No. 401/2006 of 23 February 2006.**

1.1 Requirement of sampling

The authorized laboratories shall follow validated method of sampling based on the above EU and UK regulations and analysis for determination of aflatoxins in PPP.

1.2 Requirements of analysis

The method of analysis for aflatoxins B₁ and B₁+B₂+G₁+G₂ shall be validated and confirmatory only. Appropriate equipments shall be used keeping in view accuracy, applicability (matrix and concentration range). Limit of detection, limit of quantification, precision, repeatability, recovery, reproducibility, selectivity, sensitivity, linearity, measurement uncertainty and other criteria shall be selected as recommended by the NRL. It would be primary responsibility of the authorized laboratories to draw and test samples as per instructions and declare that the PPP sampled and tested pertaining to respective batches qualify for exports for either of the following categories:

- (i) Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in µg/kg related to a

product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).

- (ii) Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
 - (iii) Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
 - (iv) Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
- 1.3 The authorized laboratories, therefore, shall clearly label the respective lots of consignments for the above categories. The levels under each category also shall not exceed levels prescribed in Annexure-IV of the document titled Regulation of export of peanuts and peanut products to the European Union through control of aflatoxins.
- 1.4 Exporters, processors and authorized laboratories shall follow the guidelines pertaining to sampling, which are as follows:
- 1.5 Different types of lots: Commodities traded in bulk, containers, or individual packing, such as sacks, bags, retail packing. The method of sampling shall be applied to all the different forms in which the commodities are put on the market.

Without prejudice to the specific provisions, following formula shall be used as a guide for the sampling of lots traded in individual packs, such as sacks, bags, retail packing.

Sampling frequency (SF) $n = \frac{\text{Weight of the lot} \times \text{Weight of the incremental sample}}{\text{Weight of the aggregate sample} \times \text{Weight of individual packing}}$

- Weight: in kg
- Sampling frequency (SF): every nth sack or bag from which an incremental sample must be taken (decimal figures should be rounded to the nearest whole number).

- 1.6 The sampling procedure with regards the subdivision of lots into sub lots, the number of (base) samples to be taken from the sub lot, the aggregate sample weight (kg) and the preparation of the laboratory sample.
- 1.7 For each lot, the incremental samples of peanut and peanut products from each subplot are pooled, and thoroughly mixed to yield the aggregate sample.
- 1.8 As a rule, peanuts shall be packed in 25 or 50 kg PP or jute bags. The jute bags shall be fresh and inner coated. In case of big bags weighing 1000 kg to 1500 kg, only PP bags shall be used for exports. The containers shall have generally total weight of 18-25 tons. The required number of (base) samples can be obtained in the following manner, with the objective of acquiring a representative collective sample:
 - (i) Automated sampler for filling individual packages
 - (ii) Samples of at least 100 different individual packages ($\leq 50\text{kg}$)
 - (iii) Samples taken from all big bags

1.9 Sampling method

This method of sampling is of application for the control of the maximum levels for aflatoxin B1 and total aflatoxins in groundnuts (peanuts).

1.10 Weight of the incremental sample

The weight of the incremental sample shall be about 200 grams, unless otherwise defined.

In the case of lots in retail packings, the weight of the incremental sample depends on the weight of the retail packing.

In the case of retail packs of more than 200 grams, this will result in aggregate samples weighing more than 20 kg. If the weight of a single retail pack is much more than 200 grams, then 200 grams shall be taken from each individual retail pack as an incremental sample. This can be done either when the sample is taken or in the laboratory. However, in cases where such method of sampling would lead to unacceptable commercial consequences resulting from damage to the lot (because of packaging forms, means of transport, etc.), then an alternative method of sampling can be applied. For example, in case where a valuable product is marketed in retail packs of 500 grams or 1 kg, the aggregate sample can be obtained by the aggregation of a number of incremental samples that is smaller than the number indicated in tables 1, 2 and 3, on the condition that the weight of the aggregate sample corresponds to the required weight of the aggregate sample mentioned in tables 1, 2 and 3.

Where the retail pack is less than 200 grams and if the difference is not very large, one retail pack shall be considered as one incremental sample, resulting in an aggregate sample of less than 20 kg. If the weight of the retail pack is much less than 200 grams, one incremental sample shall consist of two or more retail packs, whereby the 200 grams are approximated as closely as possible

1.11 General survey of the method of sampling

Table 1

Subdivision of lots into sublots depending on product and lot weight

Commodity	Lot weight (tonne)	Weight or number of sublots	No incremental samples	Aggregate sample weight (kg)
Groundnuts (peanuts)	> 500	100 tonnes	100	20
	> 125 & <500	5 sublots	100	20
	≥ 15 and ≤ 125	25 tonnes	100	20
	< 15	---	10-100 (*)	≤ 20

*Depending on the lot weight - see table 2

1.12 On condition that the subplot can be separated physically, each lot shall be subdivided into sublots following table 1. Taking into account that the weight of the lot is not always an exact multiple of the weight of the sublots, the weight of the subplot may exceed the mentioned weight by a maximum of 20 %.

- Each subplot shall be sampled separately
- Number of incremental samples: 100
- Weight of the aggregate sample = 20 kg which shall be mixed and to be divided into two equal laboratory samples of 10 kg before grinding (this division into two laboratory samples is not necessary in case of groundnuts (peanuts) subjected to further sorting or other physical treatment and of the availability of equipment which is able to homogenise a 20 kg sample).
- Each laboratory sample of 10 kg shall be separately ground finely and mixed thoroughly to achieve complete homogenisation, in accordance with the provisions.
- If it is not possible to carry out the method of sampling described above because of the commercial consequences resulting from damage to the lot (because of packaging forms, means of transport, etc.) an alternative method of sampling may be applied provided that it is as representative as possible and is fully described and documented.

1.13 Method of sampling for groundnuts (peanuts) (lots < 15 tonnes)

The number of incremental samples to be taken depends on the weight of the lot, with a minimum of 10 and a maximum of 100.

The figures in the following table 2 may be used to determine the number of incremental samples to be taken and the subsequent division of the aggregate sample.

Table 2

Number of incremental samples to be taken depending on the weight of the lot and number of subdivisions of the aggregate sample

Lot weight (tonnes)	No of incremental samples	Aggregate sample Weight (kg) (in case of retail packings, weight of aggregate sample can diverge)	No of laboratory samples from aggregate sample
≤ 0,1	10	2	1 (no division)
> 0,1 – ≤ 0,2	15	3	1 (no division)
> 0,2 – ≤ 0,5	20	4	1 (no division)
> 0,5 – ≤ 1,0	30	6	1 (no division)
> 1,0 – ≤ 2,0	40	8 (- < 12 kg)	1 (no division)
> 2,0 – ≤ 5,0	60	12	2
> 5,0 – ≤ 10,0	80	16	2
> 10,0 – ≤ 15,0	100	20	2

- Weight of the aggregate sample ≤ 20 kg which shall be mixed and if necessary divided into two equal laboratory samples of ≤ 10 kg before grinding (this division into two laboratory samples is not necessary in case of, groundnuts (peanuts) subjected to further sorting or other physical treatment and of the availability of equipment which is able to homogenise up to 20 kg samples).

In cases where the aggregate sample weights are less than 20 kg, the aggregate sample shall be divided into laboratory samples according to following guidance:

- < 12 kg: no division into laboratory samples;
- ≥ 12 kg division into two laboratory samples.
- Each laboratory sample shall be separately ground finely and mixed thoroughly to achieve complete homogenisation, in accordance with the provisions laid down.
- If it is not possible to carry out the method of sampling described above because of the unacceptable commercial consequences resulting from damage to the lot (because of packaging forms, means

of transport, etc.) an alternative method of sampling may be applied provided that it is as representative as possible and is fully described and documented.

1.14 Method of sampling for derived products, with the exception of vegetable oil, and compound foods.

1.14.1 Derived products (other than vegetable oil) with small particle size, i.e. flour, peanut butter (homogeneous distribution of aflatoxin contamination)

- Number of incremental samples: 100; for lots of under 50 tons the number of incremental samples shall be 10 to 100, depending on the lot weight (see table 3),

Table 3

Number of incremental samples to be taken depending on the weight of the lot

Lot weight (tonnes)	No of incremental samples	Aggregate sample weight (kg)
≤ 1	10	1
> 1 – ≤ 3	20	2
> 3 – ≤ 10	40	4
> 10 – ≤ 20	60	6
> 20 – ≤ 50	100	10

- The weight of the incremental sample shall be about 100 grams. In the case of lots in retail packing, the weight of the incremental sample depends on the weight of the retail packing,
- Weight of aggregate sample = 1-10 kg sufficiently mixed,

1.14.2 Derived products with are relatively large particle size (heterogeneous distribution of aflatoxin contamination).

1.15 Sampling at retail stage

Sampling of foodstuffs at the retail stage shall be done where possible in accordance with the provisions set out.

Where that is not possible, other effective methods of sampling at retail stage may be used provided that they ensure that the aggregate sample is sufficiently representative of the sampled lot and is fully described and documented. In any case, the aggregate sample shall be at least 1 kg. In case the portion to be sampled is so small that it is impossible to obtain an aggregate sample of 1 kg, the aggregate sample weight might be less than 1 kg.

1.16 Specific method of sampling for groundnuts (peanuts) and derived products traded in vacuum packs

For lots equal to or more than 15 tonnes at least 50 incremental samples resulting in a 20 kg aggregate sample shall be taken and for lots of less than 15 tonnes, 50 % of the number of incremental samples mentioned in table 2 shall be taken resulting in an aggregate sample of which the weight corresponds to the weight of the sampled lot (see table 2).

1.17 Products derived from groundnuts (peanuts) with small particle size.

For lots equal to or more than 50 tonnes at least 25 incremental samples resulting in a 10 kg aggregate sample shall be taken and for lots less than 50 tonnes, 25 % of the number of incremental samples mentioned in table 3 shall be taken resulting in an aggregate sample of which the weight corresponds to the weight of the sampled lot (see table 3).

1.18 Acceptance of a lot or subplot

For groundnuts (peanuts) subjected to a sorting or other physical treatment:

- Acceptance if the aggregate sample or the average of the laboratory samples conforms to the maximum limit, taking into account the correction for recovery and measurement uncertainty,
- Rejection if the aggregate sample or the average of the laboratory samples exceeds the maximum limit beyond reasonable doubt taking into account the correction for recovery and measurement uncertainty,

For groundnuts (peanuts) intended for direct human consumption:

- Acceptance if none of the laboratory samples exceeds the maximum limit, taking into account the correction for recovery and measurement uncertainty,
- Rejection if one or both of the laboratory samples exceeds the maximum limit beyond reasonable doubt taking into account the correction for recovery and measurement uncertainty,

In cases where the aggregate sample is 12 kg or less:

- Acceptance if the laboratory sample conforms to the maximum limit, taking into account the correction for recovery and measurement uncertainty,
- Rejection if the laboratory sample exceeds the maximum limit beyond reasonable doubt taking into account the correction for recovery and measurement uncertainty.

(ii) For consignments of PPP for feed stuffs meant for export to EU countries except UK, Commission Regulation (EC) No. 152/2009 of 27 January 2009.

1 Purpose and scope

Samples intended for the official control of feed shall be taken according to the methods described below. Samples thus obtained shall be considered as representative of the sampled portions.

2 Sampling personnel

The samples shall be taken by persons authorised for that purpose by the authorised laboratories.

3 Definitions

Sampled portion: A quantity of product constituting a unit, and having characteristics presumed to be uniform.

Incremental sample: A quantity taken from one point in the sampled portion.

Aggregate sample: An aggregate of incremental samples taken from the same sampled portion.

Reduced sample: A representative part of the aggregate sample, obtained from the latter by a process of reduction.

Final sample: A part of the reduced sample or of the homogenised aggregate sample.

4 Apparatus

4.1 The sampling apparatus must be made of materials which cannot contaminate the products to be sampled. Such apparatus may be officially approved by the Member States.

4.2 Apparatus recommended for the sampling of solid feed

4.2.1 Manual sampling

- Flat-bottomed shovel with vertical sides.
- Sampling spear with a long split or compartments. The dimensions of the sampling spear must be appropriate to the characteristics of the sampled portion (depth of container, dimensions of sack, etc.) and to the particle size of the feed.

4.2.2 Mechanical sampling

Approved mechanical apparatus shall be used for the sampling of moving feed.

4.2.3 Divider

Apparatus designed to divide the sample into approximately equal parts may be used for taking incremental samples and for the preparation of reduced and final samples.

5 Quantitative requirements

5.A	In relation to the control of substances or products uniformly distributed throughout the feed	
5.A.1	Sampled portion: The size of the sampled portion must be such that each of its constituent parts can be Sampled	
5.A.2	Incremental samples	
5.A.2.1	Loose feed:	Minimum number of incremental samples:
5.A.2.1.1	sampled portions not exceeding 2,5 metric tons	seven
5.A.2.1.2	sampled portions exceeding 2,5 metric tons	$\sqrt{}$ 20 times the number of metric tons making up the sampled portion (*), up to a maximum of 40 incremental samples
5.A.2.2	Packaged feed:	Minimum number of packages to be sampled (**):
5.A.2.2.1	Packages of more than 1 kg:	
5.A.2.2.1.1	sampled portions of one to four packages	all packages
5.A.2.2.1.2	sampled portions of 5 to 16 packages	four
5.A.2.2.1.3	sampled portions of more than 16 packages	$\sqrt{}$ number of packages making up the sampled portion (*), up to maximum of 20 packages
5.A.2.2.2	Packages not exceeding 1 kg	
5.A.2.3	Liquid or semi-liquid feed:	Minimum number of containers to be sampled (**):
5.A.2.3.1	Containers of more than one litre:	
5.A.2.3.1.1	sampled portions of one to four containers	all containers
5.A.2.3.1.2	sampled portions of 5 to 16 containers	four
5.A.2.3.1.3	sampled portions of more than 16 containers	$\sqrt{}$ number of containers making up the sampled

		portion (*), up to a maximum of 20 containers
5.A.2.3.2	Containers not exceeding one litre	four
5.A.2.4	Feed blocks and mineral licks	Minimum number of blocks or licks to be sampled (**): one block or lick per sampled portion of 25 units, up to a maximum of four blocks or licks
5.A.3	Aggregate sample: A single aggregate sample per sampled portion is required. The total amount in the incremental samples making up the aggregate sample shall be not less than the following:	
5.A.3.1	Loose feed	4 kg
5.A.3.2	Packaged feed:	
5.A.3.2.1	packages of more than 1 kg	4 kg
5.A.3.2.2	packages not exceeding 1 kg	weight of the contents of four original packages
5.A.3.3	Liquid or semi-liquid feed:	
5.A.3.3.1	containers of more than one litre	four liters
5.A.3.3.2	containers not exceeding one litre	volume of the contents of four original containers
5.A.3.4	Feed blocks or mineral licks:	
5.A.3.4.1	each weighing more than 1 kg	4 kg
5.A.3.4.2	each weighing not more than 1 kg	weight of four original blocks or licks
5.A.4	Final samples: The aggregate sample gives the final samples on reduction when necessary. Analysis of at least one final sample is required. The amount in the final sample for analysis shall be not less than the following:	
	Solid feed	500 g
	Liquid or semi-liquid feed	500 ml
5.B	In relation to the control of undesirable substances or products likely to be distributed no uniformly throughout the feed, such as aflatoxins, rye ergot, castor-oil plant and crotalaria in feed materials (***)	
5.B.1	Sampled portion: see 5.A.1	
5.B.2	Incremental samples	
5.B.2.1	Loose feed: see 5.A.2.1	
5.B.2.2	Packaged feed:	Minimum number of packages to be sampled:
5.B.2.2.1	sampled portions consisting of one to four packages	all packages
5.B.2.2.2	sampled portions consisting of 5 to 16 packages	four
5.B.2.2.3	sampled portions consisting of more than 16 packages	√ number of packages making up the sampled

		portion (*), up to a maximum of 40 packages
5.B.3	Aggregate samples: The number of aggregate samples will vary with the size of the sampled portion. The minimum number of aggregate samples per sampled portion is given below. The total weight of the incremental samples making up each aggregate sample shall be not less than 4 kg	
5.B.3.1	Loose feed	
	Weight of the sampled portion in metric tons:	Minimum number of aggregate samples per sampled portion:
	up to 1	1
	more than 1 and up to 10	2
	more than 10 and up to 40	3
	more than 40	4
5.B.3.2	Packaged feed	
	Size of the sampled portion in number of packages:	Minimum number of aggregate samples per sampled portion:
	1 to 16	1
	17 to 200	2
	201 to 800	3
	more than 800	4
5.B.4	Final samples: Each aggregate sample gives the final samples on reduction. Analysis of at least one final sample per aggregate sample is required. The weight of the final sample for analysis may not be less than 500 g	

(*) Where the number obtained is a fraction, it shall be rounded up to the next whole number.

(**) For packages or containers whose contents do not exceed 1 kg or one litre and for blocks or licks weighing not more than 1 kg each, an incremental sample shall be the contents of one original package or container, one block or one lick.

(***) The methods provided for in 5.A are for use in the control of aflatoxins, rye ergot, castor-oil plant and crotalaria in complete and complementary feed.

6 Instructions for taking, preparing and packaging the samples

6.1 General

The samples must be taken and prepared as quickly as possible bearing in mind the precautions necessary to ensure that the product is neither changed nor contaminated. Instruments and also surfaces and containers intended to receive samples must be clean and dry.

6.2 Incremental samples

6.2.1 In relation to the control of substances or products uniformly distributed throughout the feed Incremental samples must be taken at random throughout the whole sampled portion and they must be of approximately equal sizes.

- Loose feed

An imaginary division shall be made of the sampled portion into a number of approximately equal parts. A number of parts corresponding to the number of incremental samples required in accordance with 5.A.2 shall be selected at random and at least one sample taken from each of these parts.

Where appropriate, sampling may be carried out when the sampled portion is being moved (loading or unloading).

- Packaged feed

Having selected the required number of packages for sampling as indicated in 5.A.2, part of the contents of each package shall be removed using a spear or shovel. Where necessary, the samples shall be taken after emptying the packages separately. Any lumps shall be broken up, if necessary, by separating them out and returning into the sample, in each aggregate sample separately.

- Homogeneous or homogenisable liquid or semi – liquid feed

Having selected the required number of containers for sampling as indicated in 5.A.2, the contents shall be homogenised if necessary and an amount taken from each container.

The incremental samples may be taken when the contents are being discharged.

- Non-homogenisable, liquid or semi-liquid feed

Having selected the required number of containers for sampling as indicated in 5.A.2, samples shall be taken from different levels.

Samples may also be taken when the contents are being discharged but the first fractions shall be discarded.

In either case the total volume taken must not be less than 10 litters.

- Feed blocks and mineral licks

Having selected the required number of blocks or licks for sampling as indicated above, a part of each block or lick shall be taken.

- 6.2.2 In relation to the control of undesirable substances or products likely to be distributed non-uniformly throughout the feed, such as aflatoxins, rye ergot, castor-oil plant and crotalaria in feed materials

An imaginary division shall be made of the sampled portion into a number of approximately equal parts, corresponding to the number of aggregate samples provided for in 5.B.3. If this number is greater than one, the total number of incremental samples provided for in 5.B.2 shall be distributed approximately equally over the different parts. Then take samples of approximately equal sizes (1) and such that the total amount in the samples from each part is not less than the minimum 4 kg quantity required for each aggregate sample. Incremental samples taken from different parts shall not be aggregated.

6.3 Preparation of aggregate samples

- 6.3.1 In relation to the control of substances or products distributed uniformly throughout the feed

The incremental samples shall be mixed to form a single aggregate sample.

- 6.3.2 In relation to the control of undesirable substances or products likely to be distributed non-uniformly throughout the feed, such as aflatoxins, rye ergot, castor-oil plant and crotalaria in feed materials

The incremental samples from each part of the sampled portion shall be mixed and the number of aggregate samples provided for in 5.B.3, made up taking care to note the origin of each aggregate sample.

6.4 Preparation of final samples

The material in each aggregate sample shall be carefully mixed to obtain a homogenised sample (1). If necessary the aggregate sample shall first be reduced to at least 2 kg or two litres (reduced sample) either by using a mechanical or automatic divider or by the quartering method.

At least three final samples shall then be prepared, of approximately the same amount and conforming to the quantitative requirements of 5.A.4 or 5.B.4. Each sample shall be put into an appropriate container. All necessary precautions shall be taken to avoid any change of composition of the sample, contamination or adulteration which might arise during transportation or storage.

6.5 Packaging of final samples

The containers or packages shall be sealed and labelled (the total label must be incorporated in the seal) in such a manner that they cannot be opened without damaging the seal.

7 sampling record

A record must be kept of each sampling, permitting each sampled portion to be identified unambiguously.

8 Destination of samples

For each aggregate sample, at least one final sample shall be sent as quickly as possible to the authorised analytical laboratory, together with the information necessary for the analyst.

General provisions on methods of analysis for feed

Preparation of samples for analysis

1 Purpose

The procedures described below concern the preparation for analysis of final samples, sent to the control laboratories after sampling in accordance with the provisions laid down.

These samples must be prepared in such a way that the amounts weighed out, as provided for in the methods of analysis, are homogeneous and representative of the final samples.

2 Precautions to be taken

The sample preparation procedure to be followed is dependent on the methods of analysis used. It is therefore of major importance that it is ensured that the followed sample preparation procedure is appropriate for the used method of analysis.

All the necessary operations must be performed in such a way as to avoid as far as possible contamination of the sample and changes of its composition.

Grinding, mixing and sieving shall be carried out as quickly as possible with minimal exposure of the sample to the air and light. Mills and grinders likely to appreciably heat the sample shall not be used.

Manual grinding is recommended for feed which are particularly sensitive to heat. Care shall also be taken to ensure that the apparatus itself is not a source of contamination of trace elements.

If the preparation cannot be carried out without significant changes in the moisture content of the sample, determine the moisture content before and after preparation according to the method laid down.

3 Procedure

Divide the sample into adequate sub-samples for analysis and for reference by using adequate splitting techniques like alternate shoveling, stationary or rotary riffing. Coning and quartering is not recommended because this might provide sub samples with high splitting error. Keep the sample for reference in a suitable clean, dry container, fitted with an air-tight stopper, and prepare the sub-samples for analysis of at least 100 g as indicated below.

3.1 Feed which can be ground as such

Unless otherwise specified in the methods of analysis, sieve the whole sample through a sieve with a square mesh of 1 mm side (in accordance with recommendation ISO R565) after grinding, if necessary. Avoid any over grinding.

Mix the sieved sample and collect it in a suitable clean, dry container fitted with an air-tight stopper. Mix again, immediately before weighing out the amount for analysis.

3.2 Feed which can be ground after drying

Unless otherwise specified in the methods of analysis, dry the sample to bring its moisture content down to a level of 8 % to 12 %, according to the preliminary drying procedure described under point 4.3 of the method of determination of moisture mentioned. Then proceed as indicated in section 3.1.

3.3 Liquid or semi-liquid feed

Collect the sample in a suitable clean, dry container, fitted with an air-tight stopper. Mix thoroughly immediately before weighing out the amount for analysis.

3.4 Other feed

Samples which cannot be prepared according to one of the above procedures shall be treated by any other procedure which ensures that the amounts weighed out for the analysis are homogeneous and representative of the final samples.

4 Storage of samples

Samples must be stored at a temperature that will not alter their composition. Samples intended for the analysis of vitamins or substances

which are particularly sensitive to light shall be stored in brown glass containers.

Provisions relating to reagents and apparatus used in methods of analysis

- 1 Unless otherwise specified in the methods of analysis, all analytical reagents must be analytically pure. When trace analysis is carried out, the purity of the reagents must be checked by a blank test. Depending upon the results obtained, further purification of the reagents may be required.
- 2 Any operation involving preparation of solutions, dilution, rinsing or washing, mentioned in the methods of analysis without indication as to the nature of the solvent or diluents employed, implies that water must be used. As a general rule, water shall be dematerialized or distilled. In particular cases, which are indicated in the methods of analysis, it must be submitted to special procedures of purification.
- 3 In view of the equipment normally found in control laboratories, only those instruments and apparatus which are special or require specific usage are referred to in the methods of analysis. They must be clean, especially when very small amounts of substances have to be determined.

Application of methods of analysis and expression of the results

1 Extraction procedure

Several methods determine a specific extraction procedure. As a general rule, other extraction procedures than the procedure referred to in the method can be applied on the condition that the used extraction procedure has been proven to have the equivalent extraction efficiency for the matrix analyzed as the procedure mentioned in the method.

2 Clean-up procedure

Several methods determine a specific clean-up procedure. As a general rule, other clean-up procedures than the procedure referred to in the method can be applied on the condition that the used clean-up procedure has been proven to result in equivalent analytical results for the matrix analyzed as the procedure mentioned in the method.

3 Reporting of the method of analysis used

In general a single method of analysis is established for the determination of each substance in feed. Where several methods are given, the particular method used by the control laboratory must be indicated on the analysis report.

4 Number of determinations

The result given in the analysis report shall be the average value obtained from at least two determinations, carried out on separate portions of the sample, and of satisfactory repeatability.

However, in case of the analysis of undesirable substances, if the result of the first determination is significantly (> 50 %) lower than the specification to be controlled, no additional determinations are necessary, on the condition that the appropriate quality procedures are applied.

In case of the control of the declared content of a substance or ingredient, if the result of the first determination confirms the declared content, i.e. the analytical result falls within the acceptable range of variation of the declared content, no additional determinations are necessary, on the condition that the appropriate quality procedures are applied.

In some cases this acceptable range of variation is defined in legislation such as in Council Directive 79/373/EEC (1).

5 Reporting of the analytical result

The analytical result shall be expressed in the manner laid down in the method of analysis to an appropriate number of significant figures and shall be corrected, if necessary, to the moisture content of the final sample prior to preparation.

6 Measurement uncertainty and recovery rate in case of analysis of undesirable substances

As regards undesirable substances within the meaning of Directive 2002/32/EC, including dioxins and dioxin-like PCBs, a product intended for animal feed shall be considered as non-compliant with the established maximum content, if the analytical result is deemed to exceed the maximum content taking into account expanded measurement uncertainty and correction for recovery. In order to assess compliance, the analyzed concentration is used after being corrected for recovery and after deduction of the expanded measurement uncertainty. This procedure is only applicable in cases where the method of analysis enables the estimation of measurement uncertainty and correction for recovery (e.g. not possible in case of microscopic analysis).

The analytical result shall be reported as follows (in so far the used method of analysis enables to estimate the measurement uncertainty and recovery rate):

- (a) Corrected for recovery, the level of recovery being indicated. The correction for recovery is not necessary in case the recovery rate is between 90 % and 110 %;

- (b) As 'x +/- U', whereby x is the analytical result and U is the expanded measurement uncertainty, using a coverage factor of 2 which gives a level of confidence of approximately 95 %.

However, if the result of the analysis is significantly (> 50 %) lower than the specification to be controlled, and on the condition that the appropriate quality procedures are applied and the analysis serves only the purpose of checking compliance with legal provisions, the analytical result might be reported without correction for recovery and the reporting of the recovery rate and measurement uncertainty might be omitted in these cases.

- (iii) For consignments of PPP for feed stuffs meant for exports to UK, Feeding Stuffs (England) UK, Regulations 2010, statutory instrument 2010 No.2280, feed procedure and testing of feed (sampling & analysis).**

The authorized laboratories shall follow method of sampling and analysis of peanuts and peanut products consignments (feeding stuffs) meant for exports to the United Kingdom in addition to procedure given above. The UK regulations are available at:

<http://www.opsi.gov.uk>.

AFLATOXIN LEVELS IN PEANUTS & PEANUT PRODUCTS

(Please refer to para 4.5 of this document)

[Commission Regulation (EU) No 165/2010 of 26.02.2010 amending Regulation (EC) No. 1881/2006 setting maximum levels for certain contaminants in foodstuffs as regards aflatoxins and Commission Regulation (EC) No 2174/2003 of 12.12.2003 laying down maximum levels of mycotoxins in groundnuts and Commission Regulation (EC) 466/2001 of 8.03.2001]

Levels of aflatoxins shall not be exceeding the followings in their respective categories. The authorized laboratories shall analyze peanuts and peanut products for determination of aflatoxin levels for the following:

Sl. No.	Product categories	Maximum aflatoxin levels $\mu\text{g}/\text{kg}$	
		B ₁	Sum of B ₁ +B ₂ +G ₁ +G ₂
(i)	Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	2	4
(ii)	Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	8	15
(iii)	Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	As per the limits of aflatoxins of importing country	

(iv)	Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	As per the limits of aflatoxins of importing country
------	---	--

Note:

- (i) Peanuts reporting aflatoxin levels of more than 2 $\mu\text{g}/\text{kg}$ for B₁ and more than 4 $\mu\text{g}/\text{kg}$ sum of B₁+B₂+G₁+G₂ in one representative analyte shall not qualify for category (i) export.
- (ii) Peanuts reporting aflatoxin levels of more than 8 $\mu\text{g}/\text{kg}$ for B₁ and more than 15 $\mu\text{g}/\text{kg}$ sum of B₁+B₂+G₁+G₂ in one representative analyte shall not qualify for category (ii) export.
- (iii) Peanuts reporting aflatoxin levels of more than the limits of aflatoxins of importing country in $\mu\text{g}/\text{kg}$ for B₁ and B₁+B₂+G₁+G₂ in one representative analyte shall not qualify for category (iii) and (iv) export.

CERTIFICATE OF ANALYSIS#

(i) General Details

1	Lab Test Certificate No. & date	
2	Name & Address of the exporter	
3	APEDA RCMC No. of the exporter	
4	Name & Address of PPP processing shelling and or grading unit godown/storage from where sample drawn	
5	IOPEPC Recognition No. of PP processing unit	
6	IOPEPC Recognition No. of shelling & or grading and godown/storage unit	
7	Type of commodity	
8	Method of sampling followed	
9	Consignment Details Lot No. Number of bags/packages Quantity (MT) Date of sealing Seal No.	

(ii) Test Details

Sr. No	Aflatoxin	Aflatoxin levels for which sample analyzed ($\mu\text{g}/\text{kg}$)	Aflatoxin level found ($\mu\text{g}/\text{kg}$)	Limit of Quantification (LoQ)	Recovery percentage*	Method of analysis, equipment and detectors used
(i)	Aflatoxin B ₁					
(ii)	Aflatoxin B ₁ +B ₂ +G ₁ +G ₂					

(iii) Moisture Content (maximum contents of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with a maximum moisture content of 8% during 1 July to 30th September and 7% during the remaining period of the year).
.....analyzed by testing method.

* Results to be reported taking into account recovery correction factor.

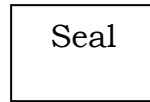
The authorized laboratories shall not add any additional statement/disclaimer with regards to sampling, analysis and stuffing of PPP meant for exports to the EU market.

CERTIFICATE

1. This is to certify that the sample of peanuts and products pertaining to the above consignment was drawn by our authorized representative from the IOPEPC recognised processing unit having IOPEPC Recognition No. ____ / IOPEPC recognised shelling & or grading, godown/storage unit having IOPEPC Recognition No. ____ and has been analysed by us for the intended use mentioned on the sample slip. The sample was tested for the aflatoxin levels and the aflatoxin content in the sample is given in the above table.
2. The samples were drawn from ...% of the bags/packages/lot/pallet selected on a random basis as per the prescribed procedure and were thoroughly mixed & made up into composite samples. One sealed sample will be retained by us for a period of 90 days from the date of sampling.
3. The APEDA recognition of this laboratory is valid as on date.
4. **Result** – On the date of issue of this certificate, the above sample conforms/does not conform (*strike out whichever is not applicable*) to the aflatoxin limits of the importing country for the following intended use:
 - (i) Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
 - (ii) Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
 - (iii) Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
 - (iv) Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product (maximum levels of aflatoxins in $\mu\text{g}/\text{kg}$ related to a product with maximum moisture content of 8% during 1st July to 30th September and 7% during the remaining period of the year).
5. This certificate is not valid if the seal numbers indicated above do not match with the seal numbers on the bags/packages/lots/pallet or if the seals are tampered.

6. Our analytical findings reflect the quality of the sample at the time of sampling. No responsibility can be expected for the possible consequences of further development of Aflatoxin, which may depend upon storage, handling and weather conditions that may influence the results at a later date/time.

Date:
Place:



Signature of authorized signatory of
Authorized Laboratory

**APPLICATION FORM FOR GRANT OF CERTIFICATE OF EXPORTS
(To be submitted by exporter to IOPEPC)**

To:
IOPEPC

This is to certify that the authorised representative of ___ (laboratory) has drawn samples of peanuts and peanut products and tested as per Trade Notice No. Trade Notice No: Apeda/Q/2010 Date: 06.09.2010 and has sealed each bag/package/lot of the consignment bearing the following details:

1	Name of the Laboratory	
2	Lab Test Report No (<i>please enclose printed copy</i>)	
3	Name & Address of the exporter	
4	APEDA RCMC No. of the exporter	
5	IOPEPC RCMC No. of the exporter	
6	IOPEPC Recognition No. of shelling & or grading and godown/storage unit	
7	IOPEPC Recognition No. of PPP processing unit	
8	Name & Address of consignee	
9	Consignment Details Lot No. Number of bags/ packages Quantity (MT) Date of sealing Seal No.	
10	Intended use (<i>tick whichever is applicable</i>)	
(i)	Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
(ii)	Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
(iii)	Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
(iv)	Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding	

	product (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
--	--	--

It is requested that Certificate of Export may please be issued to enable us effect shipment of the above consignment to _____ (country name).

Date:
Place:

Authorised signatory
Name:
Designation:

Annexure-VII

MONTHLY STATEMENT OF EXPORTERWISE SAMPLES TESTED BY AUTHORIZED LABORATORIES
(TO BE SUBMITTED BY AUTHORIZED LABORATORIES TO IOPEPC & NRL)

Sl. No.	Name of PPP : (i) processing unit (ii) shelling & or grading unit (iii) godowns/storage	IOPEPC Recognition No. of: (i) processing unit (ii) shelling & or grading unit (iii) godowns/storage	Lab Test Certificate No.	Stuffing/Loading Certificate No. and quantity (MT)	Summary of Test Results
					Category Level of aflatoxin content (µg/kg) Samples passed Samples failed (i)Aflatoxin B ₁ (ii)Aflatoxin B ₁ +B ₂ +G ₁ +G ₂

Date:
Place:

Signature
Name of authorized signatory
Name of Laboratory

Annexure-VIII

QUARTERLY CONSOLIDATED STATEMENT OF TEST REPORTS
(TO BE SUBMITTED BY NATIONAL REFERRAL LABORATORY TO IOPEPC)

Reports received during this period							
Name and address of the unit							
Place of testing							
Products							
Number of batches	[]	Months/Quarter wise	→ 1 st 2 nd 3 rd 4 th	January April July October	February May August November	March June September December	Total
Number of samples tested	[]	Nos.	Wt. in kg				Nos.
	Passed						
	Failed						
Sampling procedure followed	IOPEPC Guideline						
Name of aflatoxins tested	IOPEPC Guideline						

Sl. No.	Batch No.	Batch size (kg)	Name of aflatoxin*	Level of Aflatoxin (µg/kg)/ ppb	Aflatoxin levels found (µg/kg)/ ppb	Method of testing	Compliances (Yes) on-compliance (No); (Internal Alert Information Number)	Date of analysis completion
1.								
2.								
3.								
4.								

* Aflatoxin metabolites not detected/below limits as per Annexure IV.

Place: IIIM (CSIR) Jammu Tawi
Date:

Signature of the authority of National Referral Laboratory

Annexure-IX

INTERNAL ALERT INFORMATION
(TO BE ISSUED BY NATIONAL REFERRAL LABORATORY)

Tel: 0191-2569000-06

Fax: 091-191-2569333

jkdhar@iim.res.in; jkdhar011@yahoo.co.in

Alert Information No.....

Original

Page: No__ of __Pages

Sub: Detection of ____ aflatoxins beyond permissible levels

1. Name of processing unit :
2. APEDA RCMC No. of exporter :
3. IOPEPC RCMC No. of the exporter :
4. IOPEPC Recognition No. of Unit :
5. IOPEPC Recognition No. of shelling & or
grading and godown/storage warehouse :
6. Code Number of the produce, if any :
7. Date of processing :
8. Date of sampling :
9. Place of sampling : Processing unit
 Shelling grading unit
 Godown/storage
10. Date of analysis :
11. Findings of the analysis :

12. Recommendations by National Referral Laboratory

Date:

Place:

Signature of the Authorized
Signatory of the National Referral
Laboratory along with seal

Copies to:

1. Processor/exporter
2. All authorized laboratories
3. IOPEPC

CERTIFICATE OF EXPORTS

This is to certify that the consignment of peanuts and peanut products with the following details qualifies for export to __ (country name) with respect to aflatoxin levels:

1	Certificate No. and date	
2	Name & Address of the exporter	
3	IOPEPC RCMC No. of the exporter	
4	Name & Address of PPP processing unit	
5	IOPEPC Recognition No. of the processing unit	
6	IOPEPC Recognition No. of shelling & or grading and godown/storage unit	
7	Name & Address of consignee	
8	Details of consignment: Lot No. Number of bags/ packages Quantity (MT) Date of sealing Seal No.	
9	Lab Test Certificate No.	
10	Name & Place of Laboratory	
11	Intended use (<i>tick whichever is applicable</i>): (i) Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs. (ii) Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production. (iii) Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird. (iv) Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product.	

This certificate is not valid if the seal numbers indicated above do not match with the seal numbers on the bags/packages/lots/pallet or if the seals are tampered.

Date:
Place:

Authorised signatory of IOPEPC

Name:
Designation:

CERTIFICATE OF CONTAINER STUFFING/LOADING

This is to certify that the consignment of peanuts and peanut products with the following details has been stuffed/loaded into the container for export to _____ (country name).

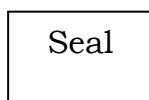
1	Certificate No. and date	
2	Name & Address of the exporter	
3	Name & Address of consignee	
4	Invoice No. & date	
5	Commodity (<i>tick whichever is applicable</i>)	
(i)	Groundnuts (peanuts) and processed products thereof, intended for direct human consumption or as an ingredient in foodstuffs, with the exception of crude vegetable oils destined for refining and refined vegetable oils (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
(ii)	Groundnuts (peanuts) to be subjected to sorting or other physical treatment or further processing, before human consumption or use as an ingredient in foodstuffs with the exception of groundnuts (peanuts) for crushing for refined vegetable oil production (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
(iii)	Groundnuts (peanuts) intended for direct usage as nutrient dietary for animal and bird (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	

(iv)	Groundnuts (peanuts) to be subjected to further processing before animal and bird consumption or use as an ingredient in feeding product (maximum levels of aflatoxins in µg/kg related to a product with maximum moisture content of 8% during 1 st July to 30 th September and 7% during the remaining period of the year).	
6	Details of consignment: Lot No. Number of bags/ packages Quantity (MT) (gross) Date of sealing Seal No.	
7	Grade and variety of the produce	
8	Date of stuffing/loading into the container	
9	Address where stuffing/loading carried out	
10	Port of discharge	
11	Country of final destination	
12	Seal No. of the container	
13	Lab Test Certificate No.	

CERTIFICATE

1. It is certified that stuffing/loading of the packages/bags/pallets of the above consignment has been carried out at the place of sampling. In case of shifting/relocation of the goods has taken place, it is with the prior consent of this laboratory.
2. The seal numbers of the packages/bags/lot/pallets are the same as those at the time of sampling.
3. Stuffing/loading of peanuts and peanut products into the containers has been carried out under the supervision of the authorized official of this laboratory.
4. It is certified that after stuffing/loading, the container has been sealed by the authorized official of this laboratory.
5. It is verified that the Certificate of Export issued by IOPEPC has allowed the shipment of the consignment of peanuts and peanut products the details of which are given above.

Date:
Place:



Signature of authorized signatory of
Authorized Laboratory

EXTRACT FROM APEDA ACT
REGISTERED No. D-(D)-72
The Gazette of India
EXTRAORDINARY
PART II – Section 1
MINISTRY OF LAW AND JUSTICE
(Legislative Department)
New Delhi, the 9th January, 1986/Pausa 19, 1907 (Saka)

The following Act of Parliament received the assent of the President on the 8th January 1986, and is hereby published for general information:

THE AGRICULTURAL AND PROCESSED FOOD PRODUCTS EXPORT DEVELOPMENT AUTHORITY ACT, 1985 No. 2 of 1986 [8th January, 1986]

An Act to provide for the establishment of an Authority for the development and promotion of exports of certain agriculture and processed food products and for matters connected therewith.

CHAPTER - V

Power to prohibit or control imports and exports of Scheduled products

CONTROL BY THE CENTRAL GOVERNMENT

19 (1) The Central Government may, by order published in the Official Gazette, make provision for prohibiting, restricting or otherwise controlling the import or export of the Scheduled products, either generally or in specified classes of cases.

(2) All Scheduled products to which any order under sub-section (1) applies, shall be deemed to be goods of which the export has been prohibited under section 11 of the Customs Act, 1962, and all the provisions of that Act shall have effect accordingly.

(3) If any person contravenes any order made under sub-section (1), he shall, without prejudice to any confiscation or penalty to which he may be liable under the provisions of the Customs Act, 1962, as applied by sub-section (2), be punishable with imprisonment for a term which may extend to one year, or with fine, or with both.

* * * * *