

REGULATION OF EXPORT OF FRESH POMEGRANATES TO THE EUROPEAN UNION THROUGH CONTROL OF PESTICIDE RESIDUES



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Background

Residue levels of pesticides, in food commodities, are becoming a major concern for food regulators all over the world. Since, the residue levels cannot be changed drastically, it is essential that adequate monitoring should be in place to eliminate possibility of presence of the residues in food commodities in excess of prescribed levels. Accordingly, it is necessary to check/verify pesticide residues in pomegranates exported to the European Union before issuance of PSC to the exporters. In order to ensure implementation of these instructions, a procedure has been developed in this Regulation of export of fresh pomegranates through control of pesticide residues for export of fresh pomegranates from India.

1.	Objective	1.1	To establish a system for controlling residues of pesticides in exportable pomegranates at the farm and plot level.
		1.2	To monitor pesticide residues in soil and water at pomegranate farms or plots and pack houses.
		1.3	To establish a surveillance system for controlling residues of pesticides allowed/recommended by the National Research Centre for Pomegranates for cultivation of pomegranates as well as for traces of other pesticides, which might be found due to previous use on the land.
		1.4	To establish a system for corrective action in the event of detection of residue levels higher than those established through this RMP.
		1.5	To establish a system for corrective action in the event of issuance of an Internal Alert Information.

		1.6	To ensure that pomegranates exported from India to the European Union (Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Germany, Greece, Finland, France, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, The Netherlands, U.K., Bulgaria, Romania) do not test for pesticide residues in excess of the prescribed levels.
		1.7	To establish a mechanism to provide grade classification of pomegranates through grant of a Certificate of Agmark Grading (CAG) by the Department of Marketing and Inspection (DMI) with a view to ensuring export of quality pomegranates to the European Union market.
2.	Scope	2.1	All pomegranates farms and plots, which intend to produce pomegranates for export to the European Union, APEDA recognized pack houses, APEDA recognised laboratories, DMI, State Govt. and personnel engaged therein as well as their pre-requisites will get covered under these procedures.
		2.2	To introduce web-based traceability through 'AnarNet' with the objective of product recall, single window clearance and reducing paper work.
3.	Procedure for registration of farms producing pomegranates for exports	3.1	Each farmer, who intends to export directly or supply fresh pomegranates to an exporter, will apply for registration of its farm and plot(s) to the concerned District Superintending Agri. / Hort. Officer, as per application form for registration of pomegranates farms given in Annexure-1 .
		3.2	After receiving the application from the farmer, the District Superintending Agriculture/Horticulture Officer shall physically verify the correctness of the

		<p>information submitted by the farmer. Only then the same will be entered in the records maintained by the District Superintending Agri./Hort. Office for the purposes of this document, and <u>not on the basis of any other records</u>. He shall also verify that plot(s) is/are not under suspension/cancelled for export to E U. In the event of cancellation/suspension of the plot(s), the Agri./Hort. Office shall take possession of the Registration Certificate from the farmer. <u>The concerned officer shall be directly responsible for any incorrect/incomplete information entered in the records and in the registration certificate issued to the farmer.</u></p> <p>3.3 Each farmer will maintain the registration and pesticide application records as per the format titled, "Plot Registration & Field Pesticide Application Record" given in the Annexure-2. The farmer and Agriculture/Horticulture officer must sign and write their complete official address. This is mandatory. The labs. will not be able to test the samples for pesticide residues if Annexure-2 is not completed by the farmers and a copy provided to the laboratory.</p> <p>3.4 It shall be the responsibility of Agriculture/Horticulture officers to ensure that information required in Annexure-2 is <u>uniformly and completely maintained</u>.</p> <p>3.5 The Annexure-2 must describe the layout with details of the adjoining farms/plots. A drawing/sketch of the layout, giving detailed description or benchmark including directions for identification, <u>also showing details of late registration plots</u>, where applicable, should be enclosed with this Annexure (see paras 3.6, 3.13 and 4.3). The drawing/sketch <u>must</u> also be signed by the Agri/Hort Officer under his official seal.</p>
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		3.6	<p>The following guidelines are required to be followed by the Agri/Hort Officers to prepare the drawing/layout of the plot(s) presented for registration/renewal :</p> <p>(a) indicate the directions (North, East, etc. of the plot,</p> <p>(b) indicate benchmarks, such as, roads, civil structures (hut, house, railway crossing, electrical sub-station, etc), canals, foot-paths, area of the plot where there are other plots (un-registered or growing other crops), AND</p> <p>(c) clearly indicate adjoining farms of other farmers</p>												
		3.7	<p>A registration number will be given to each farm upto the plot level, which will be under the charge of an Agriculture/Horticulture Officer whose head quarter is near the farm. The farm/plot would be allotted a <u>registration number by adopting only the following code format :</u></p> <table border="1" data-bbox="762 1167 1398 1312"> <thead> <tr> <th>State</th> <th>District</th> <th>Taluka/ Mandal</th> <th>Product</th> <th>Farm No.</th> <th>Plot No.</th> </tr> </thead> <tbody> <tr> <td>AA</td> <td>11</td> <td>22</td> <td>33</td> <td>4444</td> <td>00</td> </tr> </tbody> </table>	State	District	Taluka/ Mandal	Product	Farm No.	Plot No.	AA	11	22	33	4444	00
State	District	Taluka/ Mandal	Product	Farm No.	Plot No.										
AA	11	22	33	4444	00										
		3.8	<p>The plot registration certificate shall be issued only through the <i>AnarNet</i></p>												
		3.9	<p>One plot will constitute a maximum area of 4 Ha. or part thereof. For marginal adjustments, the area may be extended to a maximum of 4.2 Ha. Further, in case, different varieties are grown in the same plot or even if its area is less than 4 ha., it will be treated as a separate plot and will have separate registration numbers.</p>												
		3.10	<p>If there is only one plot in a farm, even then the registration number will be upto the plot level by mentioning '00' at the end, e.g., AA-11 22 33 4444 00</p>												

		<p>3.11</p> <p>3.12</p> <p>3.13</p> <p>3.14</p>	<p>Each plot in the farm shall be registered separately, e.g., AA-11 22 33 4444 01, 02, etc. Even if one or more plots of a farm are not intended to be utilised for exports, it/these will still have to be registered by the same procedure.</p> <p>Amendments, if any, in the Registration Certificates, shall be made only by the authorised Govt. officials after due verifications and under their signatures.</p> <p>The registration will be <u>valid for one year</u>. Therefore, all the registered pomegranates farmers shall <u>renew their farm registration every year and a fresh certificate showing renewal of the plot will be issued</u>.</p> <p>A farmer should apply for registration/renewal by the month of October to the Registration Authority. A farmer should apply for renewal to the Registration Authority as per format given in Annexure-1. No application for registration of pomegranates farms/plot(s) will be accepted after mentioned dates. However, if a farmer expects a good crop and intends to export his produce, he should register the plot well before the ripening/maturity stage (please see para 4.3). The registration will be subject to the satisfaction of the Agri/Horti Officer with regard to maintenance of spray records and their uniformity with Annexure-2. In such cases, registration will be done after pesticide residue analysis of pomegranates (at farmer's cost) from such plot areas.</p> <p>Registration Certificate, after complying with the procedure set out in paras 3.2 to 3.13, shall be issued to the applicant duly signed by an authorised State Government official indicating details of the plot, name of farmer, village, taluka, mandal, district, Survey No./Gat. No.</p>
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		<p>(this is a critical information), variety wise area, age of plot(s) and package of practices to be followed by the farmer for production of pomegranates.</p> <p>3.15 The Registration/Renewal Certificate would be accompanied by following instructions, which shall also be signed by the Agri/Hort Officer under his official seal :</p> <ul style="list-style-type: none"> (a) To follow only the recommended farming practices. (b) That farmer shall not use pesticides other than those allowed for use on pomegranates and listed in Annexure – 5. (c) Misbranded, un-recommended or banned pesticides or any other harmful chemicals shall not be used. (d) After drawl of samples for residue testing, spraying/application of any pesticides shall not be carried out. (e) Not to allow sampling or exports of pomegranates from unregistered farms. (f) Amendments, if any, on the registration records or the Registration Certificates will be made only by the Registration Certificate issuing authority. <p>3.16 All farmers shall maintain a record of package of practices followed by them in a prescribed register to be provided by the respective State Horticulture/ Agriculture Departments. This may include information on the cultural practices, application of fertilizer, dosage and date of application of insecticides, fungicides, weedicides & plant growth regulators and other chemicals.</p> <p>3.17 Each farmer, at the time of harvest, shall give a declaration to the exporter in Annexure-3 stating that pesticides, insecticides, fungicides, weedicides, etc. have not been sprayed/applied after drawl of samples for laboratory analysis.</p>
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		3.18	<p>The declaration shall also state that there is no plot under the farm that is not registered by the Agri./Hort. Office and that none of the plots mentioned in the declaration are under suspension/ have been cancelled for export to EU. This declaration shall be handed over to the exporter at the time of harvesting of the produce.</p> <p>The exporter shall, at the time of Agmark inspection, provide Annexure-4 to the laboratory representative.</p>
4.	Procedures for District Superintendent Agriculture/ Horticulture Officers	4.1	<p>Each Agriculture/Horticulture Officer will visit the farm/plot(s) at least two times to inspect the farm/plot prior to harvesting of the pomegranates. The first inspection should be carried out at the time of farm/plot registration and the second one at the sampling. If the situation warrants due to potential or heavy pest/disease incidence, then an additional inspection should be made to such areas at a time considered appropriate by the Agri/Hort Officer. Each Agri/Hort Officer will prepare the report as per format of inspection report given in Annexure - 4 (A) & 4 (B) and give a copy to farmer after obtaining his signature on it. A copy of Annexure-4 (B) duly completed and signed by all concerned will be given to representative of the lab. at the time of sampling.</p>
		4.2	<p>In the interest of information flow in the <i>AnarNet</i>, the Annexure-4(B) is required to be filled up by the Agri/Hort Officer through the <i>AnarNet</i>, otherwise the farmers and exporters will face problems as the software will not move forward and lab analysis cannot take place. .</p>
		4.3	<p>In case of late registration of the plot(s) <u>before ripening/maturity</u> (please see para 3.13), the Agri/Hort Officer, <i>during first inspection</i>, will have to clearly demarcate such areas of the plots giving</p>

			<p>block-the-area directions and/or locations (such as near the road, well etc). This will also be indicated on Annexure-4 (A) and the Annexure-2 (and its enclosures) [please see paras 3.5 & 3.6].</p>
		4.4	<p>The Agri./Hort. Officer shall also verify the registration record of the entire farm and also physically check if the same is correct and complete in all respects.</p>
		4.5	<p>The farmer and the Agri./Hort. Officer must sign and write their complete official address on each form (Annexure 4-A to 4-B). <u>This is mandatory.</u></p>
		4.6	<p>The Govts. of Maharashtra, Karnataka and A P shall maintain plot registration data in the specified format (please see para 3.7) in the web-based data-base on the Apeda website (www.apeda.gov.in) and prints of the registration certificates shall be taken through the web-based software placed on the website.</p>
		4.7	<p>The Agri/Hort Officer shall not recommend drawl of samples by the laboratories in Column 15 of Form 4(B) if the farmer has not followed the officer's advice/recommendation given in Form 4(A) or is, otherwise, satisfied that there is likelihood of the presence of excess pesticide residues. Reasons for not recommending drawl of samples will have to be clearly stated in column 16.</p>
		4.8	<p>The recommendation for allowing drawl of samples shall be made by Agri/Hort Officer only through the <i>AnarNet</i>. It is to be noted that, in the software, this recommendation can be made only after 30 days of registration of the plot.</p>
		4.9	<p>In case, the farmer/operator is not satisfied with the observations of the Agriculture/Horticulture Officer in Columns 15 and 16 in Form – 4(B), he may, if he so desires, prefer an appeal to</p>

			the higher authorities in the concerned department of the State Govt.
		4.10	Each concerned Agri./Hort. Officer will examine the certificate of residue analysis and suggest control/corrective measures in terms of do's and don'ts.
		4.11	At the end of the pomegranates season, the Agriculture/Horticulture Officers will have the responsibility to examine the consolidated test reports submitted by the NRL to the State Government and also the copies e-mailed by the laboratories to them. They will also suggest corrective action to the farmers (please see para 9.7).
		4.12	Agriculture/Horticulture Officers will organize meetings with farmers and exporters regularly to provide guidance on the quality production of pomegranates.
		4.13	Agriculture/Horticulture Officers shall carry out awareness programmes to allow use of only registered/recommended pesticides for pomegranates as given in Annexure-5 .
		4.14	The Agri./Hort. Officers will also provide information on active ingredients of pesticide products available in the market based on products tested by the concerned Govt. institutions.
		4.15	Agriculture/Horticulture Officers will ensure that only those chemicals/pesticides are allowed to be used by the farmers, which have complete information on labels including generic name, spray schedule, dosage, name of pest/disease affected, waiting period and also have an accompanying leaflet in the local language and in English.
		4.16	In the event of alert information issued by the NRL in respect of a pomegranates farm (please see para 9.11), the State Government will suspend export of

			pomegranates from that farm/plot until the alert notice is revoked by the NRL based on re-testing (please see para 9.12).
5.	Procedure for sampling from pomegranates farms/ plots	5.1	Farmers/exporters should provide a schedule to laboratories well in advance for drawl of samples to enable them to plan their sampling arrangements.
		5.2	Samples of pomegranates, soil and water for laboratory testing of each pomegranates farm/ plot intended for exports shall be drawn for testing by the nominated laboratories and National Referral Laboratory (NRL) listed in Annexure-6 of this regulation.
		5.3	Samples for laboratory testing shall be drawn by a representative of the laboratory authorized for this purpose. At the time of sampling, he will obtain from the farmer, copy of the Annexure 2. In case, if there is a time gap of more than 30 days between sampling and final harvesting, then new sample shall be drawn from the plot.
		5.4	After drawl of samples, the lab. official shall record the quantity of sample drawn and place his signature and date at the back of Registration Certificate.
		5.5	Laboratories are advised to enter details of samples drawn from the registered plots in the web-based software placed on the Apeda website immediately after drawl of samples. The Plot Registration Number will remain the key number for all purposes.
		5.6	The samples of pomegranates, soil and water shall be drawn in the presence of farmer and exporter as per the procedure given in Annexure-7 .
		5.7	Each sample will be drawn from the concerned plot, packed separately in two

		<p>corrugated cartons [one will be the lab. sample and the other will be the counter sample (to be retained for test by NRL in case of dispute)]. The cartons will be sealed and signed, and handed over/ transferred to the residue – testing laboratory within 24 hours along with the sample slip as per format given in Annexure-8. The sample slip shall be signed by the farmer, exporter and representative of the laboratory who has drawn the sample. At the time of signing the certificate in this annexure, he will also ensure that a copy of the Annexure – 2 has been obtained. The lab. will not be able to proceed forward with entries in the software unless these documents have been duly obtained, verified and entered into the software.</p> <p>5.8 It is recommended that the laboratories check both the forms under Annexure-4, i.e., Annexure- 4(A) and 4(B) for a better understanding of the use of chemicals on the plot. The lab. representative will also verify the signature of the farmer or his <u>authorised</u> representative on the sample slip with those given on Annexures- 4(A) and 4(B).</p> <p>5.9 Laboratories shall not draw samples plot(s) under the following conditions :</p> <p>(a) If the plot(s) is/are not actually registered with the Distt. Agri./ Hort. Office or the plot(s) is/are not under suspension/have been cancelled for export to the E U.</p> <p>(b) If the Registration No. of the plot(s) is not in the coding format given in para 3.7 above,</p> <p>(c) If the farmer/exporter fails to provide a copy of the Registration Certificate along with sketch/ drawing of the lay-out of the adjoining plots (please see paras 3.5 and 3.6 above),</p>
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			<p>(d) In case of any inconsistency (10% variation allowed) in the calculation of area of plot and likely production stated in the Annexures-2 (for area purposes) and 4(B),</p> <p>(e) Unless there is a clear recommendation by the Agri/Hort Officers in Column 15 of the Annexure-4(B) to this effect,</p> <p>(f) If the signature of the farmer or his authorised representative on the sample slip does not match with those given on the Annexure-3 and 4(A) & 4(B),</p> <p>(g) Until the laboratory representative has verified that the sample is being drawn from the plot whose registration is valid,</p> <p>(h) Until relevant calculations have been carried out as per procedure given in Annexure-7, and</p> <p>(i) Unless the sample slip, duly filled, accompanies the sample. The samples and the sample slip will go <u>together</u> to the laboratory.</p> <p>5.10 For movement of the samples from plot to the laboratories, a record showing the chain of custody in the following format will be maintained, and this record will also move with the samples and documents :</p> <table border="1" data-bbox="762 1688 1406 1883"> <thead> <tr> <th>Person</th> <th>Name</th> <th>Date</th> <th>Sign</th> </tr> </thead> <tbody> <tr> <td>Sampler</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Courier-1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Courier-2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Laboratory</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>5.11 The representative of the laboratory</p>	Person	Name	Date	Sign	Sampler				Courier-1				Courier-2				Laboratory			
Person	Name	Date	Sign																				
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		<p>drawing the sample shall mark the sample with the sample slip number so as to co-relate the sample slip with the sample drawn.</p> <p>5.12 On arrival in the laboratory, each sample shall be numbered by indicating the relevant code number as per procedure followed by the laboratory.</p> <p>5.13 All the exporters/recognised packhouses and laboratories shall retain representative samples (see para 8.4) of the exported pomegranate in their cold storages for a period of 90 days from the date of test report as per directions given in Annexure – 7.</p>
6.	Accreditation/ Recognition requirements and the responsibility of Nominated Laboratories	<p>6.1 All the nominated laboratories shall be accredited to the National Accreditation Board for Testing and Calibration Laboratories (NABL) and/or accredited to ISO/Scope of Accreditation.</p> <p>6.2 All the nominated laboratories shall have a valid APEDA recognition under its scheme for laboratory recognition.</p> <p>6.3 The laboratories shall test for residue levels of the pesticides (listed in Annexure-9) to be monitored for exports as per the method of analysis given in AOAC/Codex or, where necessary, as per the validated methods recommended by the NRL.</p> <p>6.4 Based on the findings of the previous pomegranate season, soil and water testing will be done in from areas identified by the NRL. The test report should reflect the detection limits and results. Copy of report shall be provided by the labs. to the farmer/exporter and NRL.</p> <p>6.5 <u>After ensuring that para 5.8 is complied with,</u> the recognised laboratory shall</p>

			nominate its representative for drawing samples of pomegranate, soil and water as per the procedure given in Annexure-7.
		6.6	The certificate of residue analysis will be issued as per the format given in Annexure-10 <u>only</u> through <i>AnarNet</i> .
		6.7	The laboratory shall calculate the area of the farm/plot(s) [see Section 5] and total likely production of the plot [S.No. 6] declared in Annexure-10 on the basis of Annexure-2/3 (for area purposes) and Annexure-4(B) <u>only</u> . Inconsistency beyond the 10% variation, if any, observed in the two documents shall be immediately reported by them to the NRL [please see paras 5.8(d) and 8.13]. The total likely production from a one hectare of Pomegranate plot is sealed at 20 tonnes with a 10% variation.
		6.8	In case, the test results exceed the MRLs with respect to the destination of the consignment declared by the exporter/farmer, the nominated laboratory will immediately (within 24 hours) bring the matter to the notice of NRL, Horticulture/Agriculture officer (whose address is given in Annexure – 2) and APEDA along with a copy of the test report giving details of the plots and the pesticides exceeding the levels. The laboratories shall, in case of failed samples, also send the chromatograms, etc. to the NRL by speed-post/courier.
		6.9	In case a Pomegranate sample fails and an internal alert has been issued by the NRL, the farmer/exporter may choose to have re-sampling done at a later date (see Annexure-8). In such cases, if the second sample passes the test, the laboratory shall, without delay, intimate the NRL to enable them to revoke the Internal Alert Information, which shall be effective from that date (see para 9.12).

		6.10	The nominated laboratories are under an obligation to provide access, on demand, to their analysis records (including chromatograms) to authorised officials of APEDA, National Referral Laboratory and the State Govt. The inspection may be carried out by NRL without prior notice to the laboratory.
		6.11	The nominated laboratories will participate in the training / inter-lab. / proficiency testing programmes organized by the NRL. The laboratories should be ready in all respects by December 2008 for this purpose.
7.	Procedure for issue of Certificate of Agmark Grading (CAG)	7.1	The complete procedure for grant of Certificate of Authorization and the Certificate of Agmark Grading (CAG) is set out in Annexure-11 . The CAG will be issued by the authorized laboratories which are recognized by APEDA as given in <u>Appendix-(i)</u> .
		7.2	The laboratory shall authorise eligible person/s for AGMARK inspection. The inspectors shall be given required training.
		7.3	The exporter will create a consignment and submit it for AGMARK inspection electronically through <i>Anarnet</i> . The exporter will request the authorised laboratory for AGMARK inspection. The representative of the authorised laboratory shall check the fruits as per Quality criteria laid by AGMARK as given in Appendix (ii) to Annexure-11.
		7.4	The CAG will be issued by authorised laboratory only after physical inspection of the fruits by representative of the laboratory who shall forward the inspection report to the laboratory through <i>Anarnet</i> . A list of DMI offices is at <u>Appendix – (iii)</u> to Annexure – 11.

8.	Procedure for issue of Phyto Sanitary Certificate (PSC)	8.1	<p>The Grower exporter/exporter will request to respective State Government Departments (PSC Authorities notified by Govt. Of India) to issue the Phyto Sanitary Certificate alongwith Application in Annexure-12(A) and the Exporter's / Shipper's declaration (given at Annexure-12(B)) and the container loading sheet/packing list. The Phytosanitary Authority shall verify the following documents at the time of inspection.</p> <ul style="list-style-type: none"> (i) Packhouse Recognition Certificate issued by APEDA, and (ii) Certificate of Authorisation issued by the Directorate of Marketing and Inspection (DMI).
		8.2	<p>The onus of proving veracity of the contents of the Annexure-12(B) lies with the exporter/shipper.</p>
		8.3	<p>The PSC Authority shall issue the PSC <u>only</u> after fulfillments of procedure laid down by Plant Protection Advisor to Govt. of India as per International Plant Protection Convention (IPPC) and following Guidelines and after satisfying themselves about following conditions:</p> <ul style="list-style-type: none"> (i) signature of farmer on the sample slip matches with those given on Annexures 3, 4(A) and 4(B), (ii) after physical verification of the produce at the APEDA recognized pack-house, (iii) the quantity of produce covered by the request for issue of PSC is calculated on the basis of Annexure - 2 (for area purposes) and Annexure-4(B) and (iv) the data logger equipment attached to the cold store for storing the consignment has been maintained

			<p>in the temperature range of 5-8°C with relative humidity of 90-95%</p> <p>8.4 The PSC Authority / representative shall, at the packhouse, draw a representative sample from the consignment, which will be sealed/marked properly and handed over to the exporter/packhouse for storage.</p> <p>8.5 In case of one Pomegranate plot, only one random sample shall be drawn from the consignment meant for export, which will be sealed/marked properly and handed over to the exporter/packhouse for storage.</p> <p>8.6 The PSC Authority shall mark the representative sample drawn with the Laboratory Test Report Number(s).</p> <p>8.7 The container-loading sheet (packing list) should contain details of farmer name, farmer code, quantity per packet, total quantity, etc.</p> <p>8.8 List of PSC Authorities notified by Govt. Of India is given in Statement –C to Annexure-12</p>
9.	Responsibilities of the National Referral Laboratory (NRL)	<p>9.1 The NRL will monitor the work of nominated laboratories by conducting surveillance audit to ascertain that they are following the criteria laid down under this monitoring system.</p> <p>9.2 The NRL, on the basis of the data, will prepare an action for the following year.</p> <p>9.3 The NRL shall draw 5% of the samples directly from the recognised packhouses pertaining to the batches tested by the laboratories as a measure of conformity</p> <p>9.4 The NRL shall also evaluate 5% test data of the samples analysed by the nominated laboratories pertaining to the</p>	

			batches tested by the nominated laboratories as a measure of conformity.
		9.5	Where residue levels are found to be higher than permitted levels, depending upon the destination of the consignment declared by the exporter/ farmer, the NRL will advise the exporters/farmers about the control measures to be taken.
		9.6	The NRL shall evaluate the soil & water test reports expeditiously and suitably advise the concerned farmer/ exporter and the Agri/Hort Officer.
		9.7	The NRL shall organize training on testing of each residue or groups of residues for the nominated laboratories as well as the farmers.
		9.8	NRL shall organize the inter-laboratory/ proficiency testing 3 - 4 times during the pomegranate season and guide the laboratories.
		9.9	The NRL shall organize interactive meetings between various stakeholders on a regular basis. Participants in these meetings shall invariably include farmers, exporters, agri/hort officers, PSC issuing authorities, Agmark officials, pesticide registration authorities and APEDA.
		9.10	The NRL shall update itself, APEDA, State Governments and the nominated laboratories with regard to the list of pesticides and their MRLs. However, the exporters shall also update themselves about the changes in MRL values and inform the NRL. The NRL will also prescribe the method of sampling/ testing/analysis and validation.
		9.11	Upon receipt of an alert notice from a nominated laboratory about a failed sample, the NRL shall, without delay, and in any case within 24 hours unless

			<p>the NRL considers it necessary to carry out any investigation, issue an Internal Alert Information to the State Govt., exporters, laboratories and APEDA under intimation to the farmer in respect of the plot(s), in case of detection of higher residues or major elements than the limits prescribed in this document as amended from time to time. A format of Internal Alert Information is given in Annexure - 13.</p>
		9.12	<p>In case a Pomegranate plot, on re-testing of a sample, passes the MRL test (see para 6.9), 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 new status of the plot.</p>
		9.13	<p>In the event of any report of inconsistency received from a laboratory in terms of para 6.7 above, the NRL shall immediately take corrective action through interaction with the State Agri/ Hort offices.</p>
10.	Powers of National Referral Laboratory	10.1	<p>The NRL shall have the right to draw samples from registered pomegranates farms, packhouses and laboratories.</p>
		10.2	<p>The NRL shall have the right to verify analysis data corresponding to the samples drawn and/or tested by the designated laboratories.</p>
		10.3	<p>The NRL shall have the authority to recommend to APEDA and/or NABL, derecognition of nominated laboratories in the event of non-compliance with the procedure for drawl of samples, testing of pomegranates, etc.</p>
11.	Overall Monitoring	11.1	<p>Export of pomegranates will take place only from the registered farms/plots</p>

		11.2	Export of pomegranates will take place only if these are processed and packed in packhouses recognised by APEDA and have been duly subjected to tests and grading and phyto-sanitary inspection by a laboratory recognized by APEDA.
		11.3	APEDA may inform the Governments of importing countries and the European Commission the names, addresses of recognized packhouses as well as the designated laboratories and will also display the list on its website.
		11.4	APEDA will ensure that the control measures suggested by the NRL are implemented by all concerned.
		11.5	When necessary, APEDA will nominate a Committee consisting of representatives of the pomegranate associations who is not an exporter, State Government, designated laboratories and APEDA under the leadership of National Referral Laboratory. As a test, the committee will evaluate the procedure followed by the exporters. A sample size of 5% covering both small and large packhouses will be taken for the purpose. Complete records of 5% quantity of pomegranates, taken on a random basis, exported by the exporter will be checked at the end of the season.
		11.6	APEDA will assess the work carried out by the NRL with respect to the responsibilities laid down in this document or as amended from time to time.
12.	Penal Provisions	12.1	In the event of breach of this regulation for controlling pesticides residues in fresh pomegranates, APEDA may initiate action as per the provisions of section 19(3), Chapter-V of APEDA Act, 1985 (Extract from APEDA Act given in Annexure-14), in addition to the following:

			<ul style="list-style-type: none">a) Cancellation of the Registration-cum-Membership Certificate of exporters.b) De-recognition of packhouses.c) Notifying to DGFT for cancellation of Import-Export Code No. allocated to such exporters.d) Any other action as deemed fit.
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Date : 22nd October 2008
Place : New Delhi

(Asit K. Tripathy)
CHAIRMAN, APEDA

Annexure-1 – Physical Document
APPLICATION FOR REGISTRATION/RENEWAL OF POMEGRANATE
PLOT(S)

(TO BE SUBMITTED BY THE FARMER)

To:
Agriculture/Horticulture Officer
Taluka/Mandal.....
District.....
State.....

Sub: Registration/Renewal of Pomegranate Farm for Exports

Dear Sir,

You are requested to kindly register/renew my name as a pomegranate farmer. Other necessary details are as follows :

- 1) Name of the farmer with address
- 2) Father's/Husband's name
- 3) Names of partners
- 4) Farm/Plot location along with maps/layout of the plot(s)
(please highlight late registration areas clearly)
- 5) Taluka/Mandal
- 6) District
- 7) State
- 8) Telephone No.
- 9) E-mail address
- 10) Total farm area (in Ha.)
- 11) Number of plots in the farm with area of each plot:
(please see paras 3.2 to 3.13)

PLOTS	SURVEY/ GAT No.	CURRENT REGN. No.	AREA (Ha.)	VARIETY	LATE REGN. (Yes/No)
Plot 01					
Plot 02					
etc.					

- 12) Crop variety & total area cultivated plot-wise
- 13) Total likely production (in MT)
- 14) Date of plantation (month & year) plot-wise
- 15) Probable date of harvesting
- 16) Pack-house Registration No., if any, and its validity
- 17) Application fee of Rs. 50/- per plot vide Cash/DD No.
_____ dated _____ enclosed.

It is certified that the plot mentioned above is not under suspension/has been cancelled for export of Pomegranates to the European Union.

Date :
Place :

Signature of the Farmer
Name of Farmer

Annexure-2- Physical Document

PLOT REGISTRATION AND FIELD PESTICIDE APPLICATION RECORD

(TO BE MAINTAINED BY THE FARMER/EXPORTER)

[copy to be given to authorized representative of the laboratory at the time of sampling]

- 1) Plot Registration Number :
- 2) Date of Registration/Renewal of plot :
- 3) Name of the farmer/operator with address :
- 4) Location of plot (lay out/benchmark) * :
- 5) Total area of the registered farm/plot (Ha) :
- 6) Name of Pomegranate variety :
- 7) Date of planting :
- 8) Date of pruning :
- 9) Likely production :
- 10) Pesticide application machinery used :
- 11) Pack-house Registration No., if any, and its validity :
- 12) Technical authorization for use :

Sr No	Date	Days after pruning	Trade name of pesticide	Active ingredient	Batch No.& Date	Target pest	Preventive/curative	Pesticide gm/ml per litre	**	**	Pre-harvest Interval (PHI)	Days to harvest		Time of Spray	Name & sign of operator
									Pesticide quantity per plot	Water per plot		Est.	Actual		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.

* The drawing/sketch of the layout of the farm / plot(s) also showing the adjoining properties must be enclosed.

** Plot size constitutes a maximum of 4.00 Ha (see para 3.9).

- It is certified that registration of the above mentioned plot has been done as per procedure given in para 3.2 to 3.11 of the “Regulation of Export of Pomegranate to the European Union through Control of Pesticide Residues” and details of the above plot have been entered on the web-based data-base maintained on the Apeda web-site.

2. It is also certified that a copy of the annexure along with a copy of the Registration Certificate, drawing/map layout of the plot and this annexure, duly signed, have been handed over to the farmer/exporter as the case may be.

Date :
Place:

Signature of the Farmer/Authorised Operator
Address
(mandatory)

The above information is correct. The total likely production of this plot during the 2008 pomegranate season is estimated to be MT.

Checked and certified
by Agriculture/Horticulture Officer
Name and Signature:
Official address of Agriculture/Horticulture Officer
(mandatory)

Annexure-3 – Physical Document

DECLARATION

(TO BE GIVEN BY THE FARMER TO THE EXPORTER)

I, _____, resident of _____ and having pomegranate farm with Plot(s) Registration Nos. _____, renewed on _____ (if applicable), hereby, certify that :

- 1) All plots under my/our farm (including those that are not intended to be utilized for export purposes) have been registered with the District Agri./Hort. Office by following the procedure laid down in this document and that none of the plots mentioned above are under suspension/have been cancelled for export to the E U.
- 2) On _____, I have allowed drawl of the pomegranates samples by the authorized representative of _____ (laboratory) for testing. After drawl of samples as per procedure prescribed in Annexure-8 of the regulation of export of fresh pomegranates through control of pesticide residues, I have not sprayed any kind of pesticides, insecticides, fungicides, weedicides, including herbal products (excluding growth regulators) on the pomegranates plot.
- 3) Harvesting of _____ MTs/Kgs. of pomegranates from my plot(s) has been carried out under my supervision on _____ and the pomegranates have been stored in _____ numbers of crates/boxes/etc.
- 4) I propose to effect export of the harvested pomegranates myself/through M/s _____ (exporter). The address of cold storage/packhouse will be as follows:

----- (APEDA Registration No. of pack house and its validity)
- 5) The balance quantity of approximately _____ MTs/Kgs. of pomegranates remaining in the plot(s) referred to above shall be informed to the District Agriculture/Horticulture Office.

Date:
Place:

Signature of farmer
with Plot Registration Numbers

**Inspection report of Pomegranates Farm/Plot
To be maintained by the Agriculture/Horticulture Officer and Farmer
First Inspection Report
(At the time of registration/renewal of registration)**

1.	Name and address of the Farmer/Grower	Name At. Post Taluka/Mandal District & State Phone No.
2.	Plot Registration No. and date of renewal)	
3.	Address of the Plot	At. Post Taluka/Mandal District State
4.	Total area of the Plot Map of the Plot (<i>please indicate all sides of farm crops grown</i>)	Survey/Gat. No..... Area.....Ha. (<i>Attach Annexure-2 and map layout</i>)
5.	If late registration (before maturity), indicate areas demarcated <i>[see paras 3.3, 3.4 and 4.3]</i>	
6.	Whether Plot is certified for Good Agriculture Practices (GAP). If so, attach a copy of valid certificate	Certificate No..... Date
7.	Last year's export details a) Quantity (MT) b) Name of Exporter c) Name of packhouse d) Name of laboratory where sample was analysed	
8.	Whether Internal Alert Notice issued by NRL, Pune in previous season	Yes/No (If yes, give details of the alert notice)
9.	Date of Pruning	
10.	Condition of the crop relating to pests and diseases and stage of crop	
11.	Any advice given to the farmer	
12.	Recommendations of inspecting authority (whether plot is fit for registration/renewal of registration)	Yes/No (if no, give specific reason)
13.	Date of Inspection	

It is certified that the registration details of the above plot has been entered on the web-based data-base maintained on the Apeda web-site.

Signature of Farmer/Grower

Signature of Inspecting Officer
Name and Full address of the
Inspecting Officer with seal

CC : Farm/Plot Registration Authority

Annexure – 4(B) – Electronic Document
Inspection report of Exportable Pomegranate Orchard/Plot
To be maintained by the Agriculture/Horticulture Officer and Farmer
Second and Final Inspection Report
(maximum 20 days before sampling)
(copy must be given to representative of laboratory at the time of sampling)

1.	Orchard/Plot Registration No.	
2.	Survey No./Gat No.	
3.	GAP Certificate No., if any	
4.	Name and address of the Farmer/ Grower	Name At. Post Taluka/Mandal District State Phone No.
5.	Address of the Plot	At. Post. Taluka/Mandal District State
6.	Total area of the plot (Ha)	
7.	First Inspection Report No. & Date	
8.	Condition of the crop relating to pests and diseases and quality of the crop	
	a) Bacterial blight	Yes/No
	b) Wilt	Yes/No
	c) Leaf and fruit spots	Yes/No
	d) Fruit rots	Yes/No
	e) Fruit borer, stem borer, shot hole borer	Yes/No
	f) Mealy bugs	Yes/No
	g) Thrips, Aphids, white flies, mites	Yes/No
	h) Other pests or diseases	Yes/No
	i) Any other observation concerning quality (blackening of arils, Cracking, sunscald etc.)	Yes/No (if yes, specify)
9.	Explain implementation of the NRC production guidelines	
10.	Likely total harvest of the plot (MT)	

11.	Tentative date of harvesting	
12.	Name of laboratory where samples being analysed	
13.	Whether pesticide spraying schedule has been as per the NRC recommendation	Yes/No (if no, please substantiate)
14.	Whether farmer has followed other advice/recommendations of Agri/Hort Officer during the year	Yes/No (if no, please substantiate)
15.	Whether sampling should be done by the laboratory (please see para 4.6 of regulation)	Recommended/Not Recommended
16.	Reasons for not recommending drawl of samples (please see para 4.6 of regulation)	
17.	Advice/Recommendation given to the farmer concerning incidence of pests & diseases and quality of pomegranates at this stage.	
18.	Date of inspection	

Signature of Farmer/Grower

Signature of Inspecting Officer
Name and
Full address of the Inspecting Officer
with seal

CC : 1. Farm/Plot Registration Authority
2. Representative of the laboratory

ENDORSEMENT BY THE SAMPLE DRAWING LABORATORY

This is to certify that I have personally drawn the samples of pomegranates from this plot, for the purposes of laboratory analysis and by adopting the procedure given in Annexure - 8. I have obtained a copy of currently valid Registration Certificate, plot drawing/map layout and that the location of this plot is as per the map. I have verified that the registration of the plot(s) is/are valid. I have also obtained a copy of Annexure - 3.

Date :
Place :

Signature :
Name of authorized :
representative of
Nominated Laboratory
Official address :

PESTICIDES RECOMMENDED FOR THE CONTROL OF VARIOUS DISEASES AND INSECT PESTS OF POMEGRANATE FOR EXPORT TO THE EUROPEAN UNION



NATIONAL RESEARCH CENTRE ON POMEGRANATE
(Indian Council of Agricultural Research)
 Solapur -413 255, Maharashtra, India

E-mail: nrcpomegranate@indiatimes.com

Website: www.nrcpomegranate.org

Sr. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	EU MRL (mg/kg)	Pre-harvest Interval (PHI in days)
Diseases:					
A	Bacterial blight (<i>Xanthomonas axonopodis pv. punicae</i>)				
1	Bordeaux mixture	NS	0.5-1.00%	20	15
2	Copper oxychloride 50% WP	NS	2.5 g/L	20	35
B	Wilt (Fungal complex <i>Ceratocystis fimbriata</i>, <i>Fusarium oxysporum</i>)				
3	Propiconazole 25% EC	S	1.50 mL/L (drenching)	0.05	20
4	Carbendazim 50%WP	S	2.00 mL/L (drenching)	0.1	100
5	Tridemorph 80%EC	S	1.00 mL/L (drenching)	0.05	40
C.	Leaf and Fruit Spots (<i>Alternaria alternata</i>, <i>Cercospora punicae</i>, <i>Colletotrichum sp.</i>, <i>Drechslera sp.</i>)				
2a	Copper oxychloride 50%WP	NS	2.5 g/L	20.0	35
6	Mancozeb 75%WP	NS	2.0 g/L	0.05	90
7	Propineb 70%WP	NS	3.0 g/L	0.05	90
8	Ziram 80%WP	NS	2.0 g/L	0.05	90
9	Copper hydroxide 77%WP	NS	2.0 g/L	20.0	35
10	Captan 50%WP	NS	2.5 g/L	0.02	35
11	Chlorothalonil 75%WP	NS	2.0 g/L	0.01	40
12	Difenoconazole 25%EC	S	1.0 g/L	0.1	45
13	Triadimefon 25% WP	S	0.5-1.0 g/L	0.1	45
14	Sulphur 80%WP	NS	2.5 g/L	50	10
4a	Carbendazim 50% WP	S	1.0 g/L	0.1	100
15	Thiophanate Methyl 80%WP	S	1.0 g/L	0.1	50
D	Fungal Blight (<i>Phytophthora sp</i>)				
6a	Mancozeb 75%WP	NS	2.0 g/L	0.05	90
9a	Copper hydroxide 77%WP	NS	2.0 g/L	20	35
2c	Copper oxychloride 50%WP	NS	2.5 g/L	20	35
16	Metalaxyl 8% + Mancozeb 64% (Metalaxyl MZ72%WP)	S	2.5 g/L	0.05	66

¹ Recommendation of pesticides for the management of various insect pests and diseases along with their dose, PHI and MRL values are of advisory nature for the Good Agriculture Practices and therefore, not covered under any legal scrutiny.

Sr. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	EU MRL (mg/kg)	Pre-harvest Interval (PHI in days)
17.	Cymoxanil 8% + Mancozeb 64% (Curzate M8)	S	2.0 g/L	0.05	66
18.	Fosetyl-Al 80%WP	S	2.0 g/L	2.0	30
19.	Dimethomorph 50%WP	S	1.0 g/L	0.05	66
Insect pests					
A	Fruit Borer (<i>Deudorix isocrates</i>)				
20	Indoxacarb 14.5%SC	NS	0.5 mL/L	0.02	30
21	Spinosad 45 %SC	NS	0.5 mL/L	0.02	28
22	Cypermethrin 25%EC	NS	1.0 mL/L	0.05	40
B	Stem Borer (<i>Celosterna spinator</i>)				
23	Chlorpyriphos 20%EC	NS	2.0 mL/L	0.05	40
20a	Indoxacarb 14.5%SC	NS	0.5 mL/L	0.02	30
21a	Spinosad 45 %SC	NS	0.5 mL/L	0.02	28
22a	Cypermethrin 25%EC	NS	1.0 mL/L	0.05	40
C	Shot hole borer (<i>Xyleborus ferricatus</i>)				
23a	Chlorpyriphos 20% EC	NS	2.0 mL/L	0.05	40
20b	Indoxacarb 14.5%SC	NS	0.5 mL/L	0.02	30
21b	Spinosad 45 %SC	NS	0.5 mL/L	0.02	28
22b	Cypermethrin 25%EC	NS	1.0 mL/L	0.05	40
D	Leaf Eating caterpillar (<i>Achaea janata</i>)				
23b	Chlorpyriphos 20%EC	NS	2.0 mL/L	0.05	40
20c	Indoxacarb 14.5%SC	NS	0.5 mL/L	0.02	30
21c	Spinosad 45 %SC	NS	0.5 mL/L	0.02	28
22c	Cypermethrin 25%EC	NS	1.0 mL/L	0.05	40
E	Mealy bug (<i>Ferrisia virgata</i>)				
23c	Chlorpyriphos 20%EC	NS	2.0 mL/L	0.05	40
24a	Dimethoate 30 %EC	S	1.0 mL/L	0.02	100
25a	Imidacloprid 17.8% SL	S	0.3 mL/L	0.05	60
26a	Thiamethoxam 25% WG	S	0.25 g/L	0.05	40
F	Thrips/Aphids/Jassids/White flies				
24.	Dimethoate 30 %EC	S	1.0 mL/L	0.02	100
25.	Imidacloprid 17.8% SL	S	0.3 mL/L	0.05	60
26.	Thiamethoxam 25% WG	S	0.25 g/L	0.05	40
G	Mites				
27	Propargite 57%EC	NS	1.0 mL/L	0.01	15
28	Abamectin 1.9%EC	S	0.5 mL/L	0.01	30
29	Azadirachtin 1%	Neem based formulation	2.0 mL/L	0.01	3
H	Nematodes				
29a	Azadirachtin 1%	NS	2.0 mL/L	0.01	3

NS= Non systemic, S= Systemic

Note

- All the doses mentioned above are for high volume sprayers, where normal spray volume is 1000 L/ha. Spray volume can however be changed as per the efficiency of sprayers used. However, the amount of each pesticide (active ingredient)

recommended for 1 ha on the basis of 1000 L spray solution should be strictly maintained to minimize pesticide residues.

- Recommendation of pesticides for the management of various insect pests & diseases along with their doses are based on the recommendations by SAUs, ICAR Institutes & research literature and therefore, not covered under any legal scrutiny.
- PHI and MRL values are of advisory nature for the good agriculture practices and therefore, not covered under any legal scrutiny.

LIST OF NOMINATED LABORATORIES
(RECOGNISED BY APEDA OR ACCREDITED TO NABL/ISO-17025)

S. No	Name of the Laboratory	Status
1)	National Research Centre for Grapes P.B. No. 3, PO Manjri Farm P.O. Solapur Road Pune – 412 307 (Maharashtra) Phone : 91-20-26914245, 26914246 Fax : 91-20-26914246 E-mail: nrcPomegranate@mah.nic.in	National Referral Laboratory
2)	Geo-Chem Lab Pvt. Ltd., Mumbai 36, Raja Industrial Estate, 1 st Floor, Purushottam Kheraj Marg, Mulund (West), Mumbai – 400 080. Phone : 022-67974999 Fax : 022-67974616 E-mail: neel@geochemgroup.com laboratory@geochemgroup.com	Accredited to NABL/ISO-17025, recognized by APEDA
3)	Insecticide Residue Testing Laboratory Krishibhavan, Shivajinagar, Pune – 411 005 Phone /Fax: 020-25510300 E-mail : irtlpune@rediffmail.com vijayskolekar@gmail.com irtlpune@yahoo.co.in	Government laboratory recognized by APEDA
4)	National Horticultural Researches and Development Foundation (NHRDF) P.B. No. 61, Kanada Batata Bhavan, 2954-E, New Mumbai Agra Road, Nasik – 422 011. Phone : 0253-2592531, 2592523 Fax : 0253-2596606 E.mail : nhrdf_nsk@sancharnet.in	Accredited to NABL/ISO-17025, recognized by APEDA
5)	Reliable Analytical Laboratory A-1, 5 Acres, Kothari Compound Tiku - ji - ni Wadi Road Manpada, Thane (W) – 400 607 Phone : 022-25899490, 25899491 Fax : 022-25899492 E-mail: reliablelabs@vsnl.net reliablelabs@hotmail.com	Accredited to NABL/ISO-17025, recognized by APEDA

6)	<p>Vimta Labs Ltd. 142, IDA, Cherlapally, Hyderabad – 500 051 Phone : 040-2726 4141, 2726 4444 Fax : 040-27263657 E-mail: crm@vimta.com sudhakar@vimta.com</p>	<p>Accredited to NABL/ISO-17025, recognized by APEDA</p>
7)	<p>SGS India limited, 1/509 A, Old Mahabalipuram Road, Opp. Govt. High School, Thoraipakkam, Chennai – 600 085 Phone : 044 – 65713192 Fax : 044 – 2496 3075/3099 E-mail: r_parthiban@sgs.com</p>	<p>Accredited to NABL/ISO-17025, recognized by APEDA</p>
8)	<p>Shriram Institute for Industrial Research Plot 14 & 15 Sadarmangla Industrial Area, White Field Road, Bangalore – 560 048 Phone : 080-28410165, 28412842 Fax : 080-28410189 E-mail: srisrb@vsnl.net.in sribglr@bgl.vsnl.net.in</p>	<p>Accredited to NABL/ISO-17025, recognized by APEDA</p>

PROCEDURE FOR SAMPLING OF POMEGRANATE ORCHARD/PLOT

(TO BE FOLLOWED BY NOMINATED LABORATORIES/NRL)

A. Procedure for sampling pomegranates for analysis of pesticide residues

1. Who will draw the sample ?

Individuals authorized by the nominated laboratory by the APEDA (as per Annexure 7) will only draw the samples.

- Individuals authorized for the sampling pomegranates should have letter of authorization from the recognized laboratories.
- Individuals authorized for the sampling should have Identity card issued by the laboratory.

2. From which orchard sample is to be collected ?

The samples will be drawn only from those orchards which are registered for export with the District Superintending Agriculture / Horticulture Officer of the respective State Govt. Before sampling, following documents pertaining to the registered orchard will be verified/copies obtained by the authorized representative of the laboratory :

- Registration Certificate issued by the State Government.
- Registration Record of Pomegranate orchard/ plot (Annexure – 2) and drawing/map lay out.
- In case the plot drawing/map lay out provided by the Agri/Hort Officer is not fully clear, the laboratory representative may continue to draw the sample as per guidelines given in Section 5 of the main document. However, while doing so, he shall provide clarity to the drawing and obtain the farmer's endorsement on it and provide a copy to him or his representative at the site.
- Field Pesticide Application Record maintained by the farmer/exporter (Annexure – 2).
- Second and Final Inspection Report of the Agri/Hort Officer [Annexure –4(B)]. It is recommended that Annexure –4(A) should also be seen.
- Sample slip signed by the farmer and exporter (Annexure –8).

3. Locate the block from where the sample is to be drawn

- Information given in, Registration Certificate, map lay out and Annexure – 2 are to be used to locate the block. It is also expected that the sketch of the block/plot is available with the First Inspection Report [Annexure – 4(A)] of the Agriculture / Horticulture Officer. Thus, the plot may be identified on the basis of name of the block / plot, direction, nearness to the landmarks such as road, well, pump house, shed etc.

- Area of the block / plot from where the sample is to drawn should not exceed 4 ha. In case, the area is above 4 ha, additional samples for every 4 ha are to be drawn.
- Area / block / section / plot selected for sampling should have the same expected date of harvest and schedule of pesticide applications. In case, the above aspects are not same, separate sample should be drawn from each variation block. Area should be considered as one section, which should not be larger than 4 ha for collecting one sample.
- Separate Annexure – 2, Annexure – 4(A), 4(B) and Annexure –8 should be obtained for each section / area / block /plot selected for sampling.
- **Area can be determined on the basis of example given below :**

Suppose the row-to-row distance is 15 feet and plant-to-plant distance is 10 feet.

Total area occupied by one plant = 150 sq. ft.

Area of one plot (4 hectares) \cong 40, 000 sqm, which is equal to 4, 43, 556 sq. ft

Total No. of plants in one plot (4 hectares) = 4, 43, 556/150

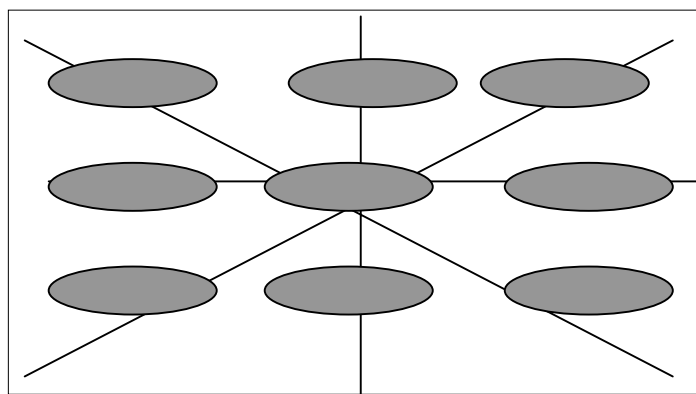
= 2, 960 Plants (Approx.)

So, one plot (Four hectares) contains 2,960 Plants spaced at 15ft. by 10 ft. distance.

4. Collection of Sample

Sample collected should be most representative to the section / block / area /plot selected. To ensure the same

- Smallest unit for sampling should be a one fruit, not the part of fruit.
- Size of the fruit selected for sampling should be from the export grade fruits available in block. Sampling of the undersized and oversized fruits to be avoided.
- Fruits hidden in the canopy, or showing infestation of insect pest (thrips, mealy bugs etc.) or diseases (Bacterial Blight, spots etc.) or any disorder (sun scald, cracking etc.) are to be avoided for sampling
- Sample fruits should be collected from all over the section selected for this purpose.
- The selected **Section / area / block / plot** may be divided into number of **spots** as shown the diagram below and about 2 plants may be selected from each spot for sampling.



- In any case spots should not be less than 9.
- Selected spot may have about 25 to 30 plants. From these plants, two or three plants may be selected randomly for sampling. However, selected plants should not be abnormal in terms of less canopy, less number of fruits, infected with insect pests, physically damaged etc.
- From each selected plant two to three fruits should be harvested for sampling. Fruits should be cut, above the knot on the peduncle with the help of secature. Total weight of the sample collected at each spot should be about 1.00kg (4 to 5 fruits) and will be called as **Primary Sample**.
- All primary samples from one section will be mixed and will be called as **Bulk Sample**. The size of the bulk sample should be of 35-40 fruits having minimum 9 kg weight from one plot.
- **Laboratory Sample** will be drawn by randomly selecting the fruits from the bulk sample. Randomly select fruits for Laboratory Sample (4 kg) (Minimum fruit 20 Fruits) following reduction principle. Out of 4 Kg. samples for laboratory, Pack half of fruits separately in two boxes as Sample for analysis (10 fruits) and for storage (10 Fruits) for storage. Storage fruits are kept in order to revalidate the analysis data in case of any dispute.
 - The counter sample should be stored immediately in cold storage at 0°C (or as per guidelines of NRL) with 90-95% relative humidity for a period of 90 days from the date of issue of test report of the sample.
 - Data logger should be installed in a cold room for recording temperature and humidity from time to time.
 - It is the responsibility of the laboratory to see that the seal of the storage sample is kept intact till such time the sample is required to be in case of dispute.

5. Packing and transport of sample

Two samples should be packed separately in clean and virgin corrugated cardboard box designed for transport of pomegranates. The boxes should be sealed with cellophane tape. Sample slip (Annexure -8) should be kept in polyethylene cover and it should be kept inside the box. The boxes should be labeled from outside with the following information :

- Pomegranate Sample for Residue Analysis
- Sample slip number
- Date of sampling
- Name of authorized representative of the laboratory

Sealed sample should be delivered to the laboratory within 24 hrs of sampling.

6. List of Material required for sampling

- Secature or harvesting scissor
- Paper bags or polythene bags
- Paper, markers, pencils
- Hand glove

- Corrugated cardboard boxes of 5 kg capacity
- Labels
- Thread
- Cellophane tape, packing tape
- Seal
- Weighing balance

B. Procedure for Sampling Soil for Monitoring Banned Pesticides

In case of orchards, were the fruits containing banned pesticides where found in the last season soil samples shall be collected by following standard procedure and analysed for these chemicals.

C. Procedure for Sampling Irrigation Water for Monitoring Banned Pesticides

In case of orchards, were the fruits containing banned pesticides where found in the last season water samples shall be collected by following standard procedure and analysed for these chemicals.

SAMPLE SLIP FOR POMEGRANATES
(TO BE GIVEN BY FARMERS/EXPORTERS)

FIRST SAMPLE/RE-SAMPLE

Sample Slip No. _____

(see para 6.9; strike out whichever is not applicable)

1)	Name & address of the farmer	
2)	Plot Registration No. & validity	
3)	Address/location of the sampled plot	
4)	Crop and variety	
5)	Total area of the plot(s) covered by this sample slip	
6)	Likely production (in MT) declared by Agri/Hort Officer as per Annexure 5(B) covered by this sample slip	
7)	Crop condition pertaining to pests and diseases	
8)	Number of fruits in the sample drawn (per plot)	
9)	Number of fruits in the laboratory sample (including storage sample)	
10)	Date of drawl of sample in the field	
11)	Whether soil or water has been tested (please attach copy of report, if applicable)	
12)	Pack-house Regn. No. & its validity (if applicable)	

Copy of Annexure – 3 is enclosed.

Date : _____
Place : _____

Signature of Exporter
(Name of Exporter)

Signature of Farmer
(Name of Farmer)

CERTIFICATE

This is to certify that :

1. I have drawn this sample personally from the above plot by adopting the procedure given in Annexure - 7 of the “Regulation of export of fresh pomegranates to the European Union through control of pesticide residues”.
2. This sample is taken from the above plot, which is intended to be exported by _____ (name of the farmer/exporter) and an endorsement to this effect has been made on the plot registration certificate.
3. I have also obtained a copy of the Registration Certificate, Annexure-2 and original of Annexure – 4(B) from the farmer.
4. That, as on date, APEDA recognition of this laboratory is valid.

Date : _____
Place : _____

Signature : _____
Name of authorized : _____
representative of
Nominated Laboratory
Official address : _____

List of pesticides to be analyzed in Pomegranate in 2008-2009

Sr.No.	Chemicals	Harmonized EU MRL as per EC No. 396/2005 implemented from 3rd September 2008 (mg/kg)
	A) Organochlorine	
1	Aldrin (expressed as dieldrin)	0.01
2	Chlordane (cis & trans)	0.01
3	Chlorothalonil	0.01
4	DDT (all isomers)	0.05
5	Dicofol	0.02
6	Dieldrin (See Aldrin)	0.01
7	Endosulphan (All isomers)	0.05
8	Endrin	0.01
9	HCH (alpha & beta)	0.01
10	Heptachlor	0.01
11	Lindane	0.01
	B) Organophosphorus	
12	4-bromo-2-chlorophenol	0.01
13	Acephate	0.02
14	Chlorfenvinphos	0.02
15	Chlorpyrifos	0.05
16	Chlorpyrifos-methyl	0.05
17	Diazinon	0.01
18	Dichlorvos	0.01
19	Dimethoate (Including Omethoate)	0.02
20	Ethion	0.01
21	Etrimphos	0.01
22	Fenitrothion	0.01
23	Iprobenphos	0.01
24	Malathion	0.02
25	Methamidophos	0.01

Sr.No.	Chemicals	Harmonized EU MRL as per EC No. 396/2005 implemented from 3rd September 2008 (mg/kg)
26	Monocrotophos	0.01
27	Omethoate (refer to Dimethoate)	0.02
28	Oxydemeton-methyl	0.02
29	Parathion ethyl	0.05
30	Parathion-methyl	0.02
31	Phorate	0.05
32	Phosalone	0.05
33	Phosphamidon	0.01
34	Profenophos	0.05
35	Quinalphos	0.05
36	Triazophos	0.01
	C) Synthetic Pyrethroids	
37	Cyfluthrin	0.02
38	Cypermethrin	0.05
39	Deltamethrin	0.05
40	Ethofenprox (Etofenprox)	1.00
41	Fenvalerate & Esfenvalerate (sum of RR & SS isomers)	0.02
42	Fenvalerate & Esfenvalerate (sum of RS & SR isomers)	0.02
43	Lambda-cyhalothrin	0.02
44	Permethrin	0.05
	D) Triazines	
45	Atrazine	0.05
46	Simazine	0.10
	E) Acylamino acid fungicides	
47	Metalaxyl	0.05
	F) Carbamates	
48	Carbaryl	0.05
49	Carbofuran	0.02
50	Carbosulfan	0.05
51	Indoxacarb	0.02
52	Methomyl	0.05

Sr.No.	Chemicals	Harmonized EU MRL as per EC No. 396/2005 implemented from 3rd September 2008 (mg/kg)
53	Thiodicarb (See Methomyl)	0.05
	G) Pyrimidines	
54	Fenarimol	0.02
	H) Triazoles	
55	Bitertanol	0.05
56	Flusilazole	0.02
57	Hexaconazole	0.02
58	Myclobutanil	0.02
59	Penconazole	0.05
60	Propiconazole	0.05
61	<u>Tebuconazole</u>	0.05
62	Triadimefon	0.10
63	Triadimenol	0.10
64	Difenoconazole	0.10
	I) Dicarboximides	
65	Captafol	0.02
66	Captan	0.02
67	Iprodione	0.02
	J) Benzimidazole	
68	Carbendazim (Including Benomyl)	0.10
69	Thiophanate-methyl	0.10
	K) Dithiocarbamates	
70	Carbon di sulfide (Mancozeb, Maneb, Propineb, Metiram, Thiram and Ziram collectively estimated as CS ₂)	0.05
	L) Nicotinoids	
71	Acetamiprid	0.01
72	Clothianidin	0.02
73	Imidacloprid	0.05
74	Thiacloprid	0.02
75	Thiamethoxam	0.05
	M) Dinitrophenol	
76	Dinocap	0.05

Sr.No.	Chemicals	Harmonized EU MRL as per EC No. 396/2005 implemented from 3rd September 2008 (mg/kg)
	N) Aliphatic Nitrogen fungicides	
77	Cymoxanil	0.05
	O) Morpholine	
78	Dimethomorph	0.05
79	Tridemorph	0.05
	P) Natural Product Derivative	
80	Buprofezin	0.05
81	Cartap hydrochloride	0.01
82	Emamectin Benzoate	0.01
83	Spinosad (Sum of Spinosyn A+D)	0.02
84	Abamectin	0.01
	Q) Substituted Thiourea	
85	Difenthiuron	0.01
	R) Others	
86	Azoxystrobin	0.05
87	Fipronil	0.005
88	Flufenoxuron	0.05
89	Oxyfluorfen	0.05
90	Propargite	0.01
91	Fenpyroximate	0.05
92	Famoxadone	0.02
93	Fenamidone	0.02
94	Diflubenzuron	0.05
95	Trifloxystrobin	0.02
96	Pyraclostrobin	0.02

Annexure-10– Electronic Document

CERTIFICATE OF RESIDUE ANALYSIS

(TO BE ISSUED BY THE NOMINATED LABORATORY)

FIRST SAMPLE/RE-SAMPLE (see para 6.9)

- 1) Name and address of the farmer
- 2) Name and address of the exporter
- 3) Plot Registration No. & its validity
- 4) Location of the plot
- 5) Area of the plot(s) covered by this report
- 6) Total likely production of the plot(s) [in MT] covered by this report [calculated on the basis of Annexure-2 (for area purposes) and Annexure-4(B)]
- 7) Name of crop and variety
- 8) Sample details
 - (a) Place and date of sample drawn
 - (b) Quantity of sample (in Kg)
 - (c) Packing
 - (d) Sample code No.
- 9) Name of the representative of Laboratory who has drawn the sample
- 10) Date of drawl of sample
- 11) Date of receipt of sample in laboratory
- 12) Date of completion of analysis
- 13) Packhouse Registration Number & its validity (if applicable)

CERTIFICATE

S. No	Names of pesticides	Residue content (mg/kg)	Limit of Quantification (LOQ) (mg/kg)	Equipment Used	MRL of EU (mg/kg)
1.	2.	3.	4.	5.	6.

- 1) This is to certify that the sample was drawn by our authorized representative from farm having Registration No. _____ and has been analysed by us. The sample was tested for the residue of the pesticides mentioned above and the residue content in the sample is as given in Column 3 of the table given above.
- 2) The Apeda recognition of this laboratory is valid as on date.

Result : 1. Sample conforms/fails (strike out whichever is not applicable).
2. Sample conforms to MRL requirements of EU

Date:
Place

Signature of authorized signatory of
Nominated Laboratory alongwith seal

Endorsement by PSC issuing Authority

This is to certify that PSC has been issued for:

1. ____ MTs, out of ____ MTs quantity and the balance left is ____ MTs.
2. ____ MTs, out of ____ MTs quantity and the balance left is ____ MTs.
3. ____ MTs, out of ____ MTs quantity and the balance left is ____ MTs.

Date :
Place :

Signature of Authorised Signatory of
PSC issuing Authority along with seal

Annexure – 11

Instructions for grant of C.A. for Exports of fruits and vegetables.

Persons desirous of undertaking Agmark Certification for fruits and vegetables under the Provisions of Agricultural Produce (Grading & Marking) Act, 1937 and various Rules issued under it, should have valid Certificate of Authorization (C.A.) for grading of fruits and vegetables. Provisions contained in Fruits and Vegetables Grading and Marking Rules, 2004 shall be applicable.

Procedure for grant of C.A.

- (1) Persons desirous of obtaining C.A. for grading fruits and vegetables under Agmark for exports shall apply to the concerned office of Directorate of Marketing & Inspection (DMI) in the prescribed **Proforma - I**.
- (2) Necessary documents as prescribed in **Annex-A** shall be enclosed with the application.
- (3) Demand draft for Rs. 1000/- as C.A. processing fee shall be enclosed with the application.
- (4) Applicant for grant of C.A. can have his own premises (owned by him or rented). He can also use common facilities of APMC pack houses, Private/Coop pack houses etc. Minimum requirements in the premises are given in **Annex-B**. Details of such arrangements shall be given with the application. Details of such arrangements may not be given by APEDA approved pack houses.
- (5) Concerned office of the DMI will process the documents, inspect the proposed premises and grant C.A. within ten days of the receipt of complete documents. Inspection of the premises is not required in case of APEDA approved pack houses. In such cases, CA shall be issued within three days of the receipt of the complete documents.
- (6) Grade designation mark (Agmark insignia) shall be securely affixed to or printed on each container. Since each and every container is accounted for in exports, it is not necessary to have running replica serial No. on each container. It is also not necessary that Agmark insignia shall be printed in printing presses permitted by the Directorate. However, authorized packer shall ensure that printer engaged by him for printing of the Agmark replica on the containers/packages has requisite facilities and infrastructure as prescribed by the Agricultural Marketing Adviser and he shall inform the name and address of the printing press to Agricultural Marketing Adviser in advance.

Procedure for obtaining Certificate of Agmark Grading (CAG) for export of Pomegranates to EU countries.

1. C.A. holder shall apply giving details of the consignment to any one of approved laboratories under intimation to the concerned office of DMI for grant of CAG for the lot of Pomegranates. Such a system is provided in the software developed by APEDA. The concerned office of DMI will have access to the information relating to the consignment for the purpose of check sampling. The list of the offices of DMI is at **Appendix (i)**.
2. The C.A. holder/exporter shall remit to the approved laboratory Agmark inspection and certification charges @ 0.2% of FOB value subject to a minimum of Rs. 200/- per consignment. For the Pomegranate season 2008, the FOB value has been retained as Rs. 51.85 per kg.
3. The approved laboratory carrying out the Agmark inspection and grading remit to the concerned office of DMI grading charges @ 0.1% of FOB value subject to a minimum of Rs. 200/- per consignment. The laboratory will send the grading charges to the concerned office of DMI every fortnight. Failure to do so will block the software for the concerned laboratory after a warning.
4. The C.A. holder will offer the lot for inspection at the approved premises. The consignment shall be offered packed in appropriate packing boxes. The inspection may also be carried out on the grading and sorting line of the approved premises.
5. C.A. holder can offer the lot for inspection and grading at the Airport/Seaport. The size of such lot shall not be more than 5 MT net weight.
6. Approved Chemist of the approved laboratory shall draw sample as per the sampling plan (**Annexure- 11C**). He/she will sign on the containers selected for sampling.
7. The approved chemist will grade the sample according to prescribed standards and assign appropriate grade. He/she will fill up the Inspection Report in the software.
8. The Inspecting Officer will stack-seal the consignment after inspection in the cold store. The temperature of the Pomegranate berries in the cold store should be in the range of 0 – 1°C and Relative Humidity in the cold store should be in the of range of 90-95%.
9. The Inspecting Officers of DMI can make surprise checks of the grading done by the approved laboratories. They will fill up the Inspection Reports of such surprise checks. The decision of the Inspecting Officers of DMI shall be final. In case of any dispute, the C.A. holder can refer the matter to the Dispute Settlement Committee.

10. Authorised persons of the approved laboratory will issue the CAG in the prescribed proforma. The CAG will be sent electronically to the C.A. holder, concerned office of DMI and the PSC issuing Authority.

11. The CAG shall be valid for 15 days from the date of issue. Revalidation of the CAG can be done on the request of the C.A. holder in case shipment is delayed beyond 15 days for valid reasons. It will be done after reexamination by the concerned laboratory to ascertain that the consignment is in sound merchantable condition and that there has been no deterioration in the quality.

Application for Grant of Certificate of Authorisation for Grading and Marking of _____ (Name of Commodity) for Export Grading

To,

The Dy. Agri. Marketing Adviser/
Asstt. Agri. Marketing Adviser/
Senior Marketing Officer
Directorate of Marketing & Inspection
_____ (name of city)

Sir/Madam,

I/We _____ of M/s _____ (full postal address) being desirous of marking _____ [Name(s) of commodity] with a grade designation mark in accordance with the rules made under the provisions of Agricultural Produce (Grading & Marking) Act 1937, hereby, request for grant of Certificate of Authorisation.

I/We have carefully gone through the provisions of AP (G&M) Act, 1937, the General Grading & Marking Rules 1988, relevant commodity Grading & Marking Rules and the instructions issued by the Agricultural Marketing Adviser to the Govt. of India or an Officer authorised by him in this regard for grading & marking of the said commodity and agree to abide by them.

The requisite particulars are furnished herewith in the prescribed proforma and the requisite documents are enclosed.

Yours faithfully,

Place:
Date:

(Signature of the applicant)
Designation:
for M/s _____

ACKNOWLEDGEMENT SLIP

Received the application dated _____ of M/s _____ alongwith the enclosures and D.D. No. _____ dated _____ for Rs. _____ for grant of Certificate of Authorisation for Grading & Marking of _____ under Agmark for export grading.

(Office Seal with Signature)

**Particulars to be furnished with the application for
Certificate of Authorisation**

1. Name and full postal address of the party.
2. Name(s) of the commodity proposed to be graded.
3. Status of the firm, i.e., Proprietary/Partnership/
Pvt. Ltd./Public Ltd./Regd. Society/Public
Undertaking etc. (copy of the relevant
document be enclosed).
4. Period for which the applicant has been
in the business.
5. Name(s) and address of two representatives
of the firm who will attend the grading work
and correspond in the matter (specimen
signatures to be furnished separately).
6. *(a) RBI Code No., if any
*(b) Import Export Code No. (issued by DGFT)
(c) Membership of the Commodity Boards
(APEDA, etc.), if any
7. VAT/ST/CST No., if allotted.
8. Full address of the premises where grading
and marking will be carried out.
9. Status of the said premises owner/lessee
(strike out whichever is not applicable).
- *10. Details of the machinery/packing
machines/cold storage etc. available in
the plant/premises with their capacity.

Name of the Machinery	Nos.	Capacity
-----------------------	------	----------
11. Any other information relevant to
grading of the commodity.
12. Trade name, if any.

(Signature of the applicant/
authorized person)
Designation
for M/s

Place :

Date :

* Not required in case of APEDA recognized pack houses.

Annexure - 11 (A)

List of the documents to be furnished along with the application for grant of C.A. for export grading

1. Application for grant of CA in the prescribed **Proforma-I**.
2. Signatures of authorized persons of the firm on the letter pad.
- *3. Copy of the proprietorship declaration/partnership deed/ memorandum and articles of association/bye-laws of society etc.
- *4. Blue print or neatly drawn sketch of the premises showing all dimensions duly signed by the authorized person of the firm.
5. Medical fitness certificates issued by the Registered Medical Practitioner certifying that the workers engaged in the handling of the product in various operations, are free from any communicable and contagious diseases.
- *6. Copy of import export code No. issued by DGFT.
7. Copy of APEDA registration, if registered.

Note : (i) Photocopies of all documents should be signed and stamped by authorized person of the firm.

(ii) Three sets of the documents are to be submitted to the concerned office of the Directorate.

*Not applicable in case of APEDA recognized pack houses.

Annexure -11(B)

Minimum requirements in the premises for grading of fruits & vegetables

1. Premises should be clean and in hygienic condition.
2. Surroundings of the premises should be clean.
3. It should not be situated near tanneries, chemical plants, fertilizer plants etc.
4. Walls of the premises should be properly plastered and free from crevices, holes, dampness etc. Thatched roof is not advisable.
5. Premises should be pest, insect and rodent proof.
6. Premises should be free from cobwebs and spiders.
7. Premises should have proper drainage system.
8. Premises should have arrangements for disposal of rejected, rotten, waste of horticulture produce.

Annexure – 11(C)

Sampling Plan

No. of cartons in the lot -----	Minimum No. of cartons to be sampled. -----
Up to 50	2
51 to 100	3
101 to 200	6
201 to 500	12
501 to 1000	25
1001 and above	1 % of the cartons

Appendix – (i)

**LIST OF NOMINATED LABORATORIES AOTHORISED TO ISSUE
CERTIFICATE OF AGMARK
(RECOGNISED BY APEDA)**

S. No	Name of the Laboratory	Status
1)	Geo-Chem Lab Pvt. Ltd., Mumbai 36, Raja Industrial Estate, 1 st Floor, Purushottam Kheraj Marg, Mulund (West), Mumbai – 400 080. Phone : 022-67974999 Fax : 022-67974616 E-mail: neel@geochemgroup.com laboratory@geochemgroup.com	Recognized by APEDA
2)	Insecticide Residue Testing Laboratory Krishibhavan, Shivajinagar, Pune – 411 005 Phone /Fax: 020-25510300 E-mail : irtlpune@rediffmail.com vijayskolekar@gmail.com	Government laboratory recognised by APEDA
3)	National Horticultural Researches and Development Foundation (NHRDF) P.B. No. 61, Kanada Batata Bhavan, 2954-E, New Mumbai Agra Road, Nasik – 422 011. Phone : 0253-2592531, 2592523 Fax : 0253-2596606 E.mail : nhrdf_nsk@sancharnet.in	Recognized by APEDA
4)	Reliable Analytical Laboratory A-1, 5 Acres, Kothari Compound Tiku - ji - ni Wadi Road Manpada, Thane (W) – 400 607 Phone : 022-25899490, 25899491 Fax : 022-25899492 E-mail: reliablelabs@vsnl.net reliablelabs@hotmail.com	Recognized by APEDA

5)	<p>Vimta Labs Ltd. 142, IDA, Cherlapally, Hyderabad – 500 051 Phone : 040-2726 4141, 2726 4444 Fax : 040-27263657 E-mail: crm@vimta.com sudhakar@vimta.com</p>	Recognized by APEDA
6)	<p>SGS India limited, 1/509 A, Old Mahabalipuram Road, Opp. Govt. High School, Thoraipakkam, Chennai – 600 085 Phone : 044 – 65713192 Fax : 044 – 2496 3075/3099 E-mail: r_parthiban@sgs.com</p>	Recognized by APEDA
7)	<p>Shriram Institute for Industrial Research Plot 14 & 15 Sadarmangla Industrial Area, White Field Road, Bangalore – 560 048 Phone : 080-28410165, 28412842 Fax : 080-28410189 E-mail: srisrb@vsnl.net.in sribglr@bgl.vsnl.net.in</p>	Recognized by APEDA

Appendix – (ii)

GRADE DESIGNATION AND QUALITY OF POMEGRANATE

1. Pomegranates shall be fruits obtained from Varieties (cultivars) of plant *Punica granatum* L. of Puniaceae family;
2. MINIMUM REQUIREMENTS:
 - (i) Pomegranates shall be :
 - (a) Fresh in appearance;
 - (b) Mature and solid in feel;
 - (c) Clean, free from any visible foreign matter;
 - (d) Free from pests affecting the general appearance of the produce;
 - (e) Free of damage caused by pests;
 - (f) Free of cracking of skin, mechanical injury/rubbing, staining;
 - (g) Free of abnormal external moisture excluding condensation following removal from cold storage;
 - (h) Free of any foreign smell or taste;
 - (i) Free of any pronounced blemishes;
 - (ii) Pomegranates should not be affected by rotting or deterioration such as to make it unfit for consumption.
 - (iii) Pomegranates shall comply with the residue levels of heavy metals, pesticides and other food safety parameters as laid down by the Codex Alimentarius Commission for exports.

3. CRITERIA FOR GRADE DESIGNATION:

Grade designation	Grade Requirements	Grade tolerances
1	2	3
Extra class	Pomegranates must be of superior quality. They must have the shape, development and colouring that are typical of the variety and/or commercial type. They must be free of defects, with the exception of very slight superficial defects, provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package.	5% by number or weight of pomegranate not satisfying the requirements for the grade, but meeting those of Class I grade or exceptionally coming within the tolerances of that grade.
Class I	Pomegranates must be of good quality. They must be characteristics of the variety and/or commercial type. The following slight defects provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package. - slight defects in shape	10% by number or weight of Pomegranate not satisfying the requirements of the grade, but meeting those of Class II or, exceptionally coming within the tolerances of that grade.

	- slight defects in colouring; - slight skin defects (i.e. scratches, scars, scraps and blemishes) provided these do not exceed 5% of the total surface area.	
Class II	This grade includes Pomegranates which do not quality for inclusion in the higher grades, but satisfy the minimum requirements. Following defects may be there provided the Pomegranates retain their essential characteristics as regards the quality, the keeping quality and presentation. <ul style="list-style-type: none"> - defects in shape, - defects in colouring, - skin defects(scratches, scars, scrapes and blemishes) provided these do not exceed 10% of total surface area. 	10% by number or weight of Pomegranates not satisfying the requirements of the grade, but meeting the minimum requirements.

4. OTHER REQUIREMENTS

Pomegranates must be carefully picked and have reached an appropriate degree of development and ripeness in accordance with criteria proper to the variety and/or commercial type and to the area in which they are grown. The development and condition of the Pomegranate must be such as to enable them;

- to withstand transport and handling, and
- to arrive in satisfactory condition at the place of destination.

5. PROVISIONS CONCERNING SIZING

Size is determined by the weight or maximum diameter of the equatorial section of the fruit, in accordance with the following table:

Size code	Weight in grams (minimum)	Diameter in mm. (minimum)
A	400	90
B	350	80
C	300	70
D	250	60
E	200	50

Size tolerance:

(i) For all grades, 10% by number or weight of pomegranate corresponding to the size immediately above and/or below than indicated on the package.

(ii) The maximum size range of 8 mm. between fruit in each package is permitted.

List of offices of the Directorate of Marketing & Inspection

MAHARASHTRA

1. MUMBAI : Shri C.M. Tabhane,
Asstt. A.M.A.
Directorate of Marketing &
Inspection, New CGO, Building
IIIrd Floor, New Marine Lines
Mumbai- 400020.
Telephone No. - 22036801(Direct), 22032699
Fax No. - 22091103
E-mail - dmiromah@nic.in

2. NASIK : Shri V. N. Pawar,
Sr. Marketing Officer
Directorate of Marketing &
Inspection, New Kamal Niwas,
Behind Hotel Vasco Tourist
Nasik Road - 422101
Telephone No. - 2465437
Fax No. - No fax
E-mail - dmimh05@nic.in

3. SANGLI : Shri Shiv Kumar,
Marketing Officer
Directorate of Marketing &
Inspection, APMC Seva Grah
Market Yard,
Sangli
Telephone No. - 2670629
Fax No. - No fax
E-mail - dmimh04@nic.in

4. PUNE : Smt. Surinder Kaur,
Marketing Officer
Directorate of Marketing &
Inspection, Graders Training
Centre, Beej Bhavan, MarketYard,
Pune-411007.
Telephone No. - 24268598
Fax No. - No fax
E-mail - dmimh07@nic.in

ANDHRA PRADESH

1. HYDERABAD : Shri E. Mohan Naidu,
Asstt. AMA
Directorate of Marketing &
Inspection, Kendriya Sadan
Block-1, Sultan Bazar,
Hyderabad
Telephone No. - 040- 24657446
Fax No. - 040-24731636
E-mail : - dmihyd@ap.nic.in

KARNATAKA

1. BANGALORE : Dr.(Mrs) Sajni Kumar,
Asstt. AMA
Directorate of Marketing &
Inspection, APMC Market yard
MG Complex, Yashwant Pur,
Bangalore-560022
Telephone No. - 080-23472924
Fax No. - 080-23473004
E-mail - bngdmi@kar.nic.in
- dmimh05@nic.in

Annexure 12(A) Electronic Document
**Application for Export Inspection and Phytosanitary
Certification of Plants/Plant Products and other Regulated
Articles.**

To Phytosanitary Authority	For PQ Office use: Receipt No. : Date of Receipt:	Registration No.: Date of Registration. :
I/We, the exporter/the authorised agent of the exporter, herewith submit an application for inspection/disinfection/disinfestation and issue of Phytosanitary Certificate for export of the goods described hereunder:		
Name & address of Exporter	Name & address of Importer	For PQ Office use
Commodity Name (Common/Botanical name)	Quantity (Wt./Vol.)	Export status: Prohibited Restricted Canalised Unrestricted
No. of pieces/packages/containers	Distinguishing marks	Documents verified: Import Permit Export License Letter of Credit/ Contract/ Agreement Invoice Fumigation Certificate Shipping/Airway Bill Others
Nature of package material	Means of conveyance	
Country of origin	Port of loading	
Country of export	Port of unloading	
Date & place of inspection of goods	Invoice/Shipping/Airway Bill No. & date	
Value of commodity (Rs.)	Purpose of Export Sowing/Planting/Consumption	
Declaration		
<p>(1) I/We the exporter/ the authorised agent of the exporter, on behalf of M/s. _____ declare that the information furnished on this form, to the best of knowledge and belief is true, correct and complete in every respect.</p> <p>(2) I/We shall pay any fees prescribed for inspection/fumigation/treatment of the consignment and any other charges towards issue of Phytosanitary/fumigation/treatment certificate.</p> <p>(3) I/We shall carry out the instructions given by the Plant Protection Adviser to the Govt. of India or any Officer duly authorised by him in this behalf in connection with inspection/fumigation/treatment of the consignment and issue of Phytosanitary Certificate.</p> <p>(4) I/We shall provide any relevant information and related documents connected with export of consignment and issue of Phytosanitary Certificate.</p>		
Date: _____	Seal	(_____) Sign. of Exporter/Authorised Agent
<p>N.B. (1) Application should be submitted by the Exporter/his authorised agent in duplicate duly filled and complete. (2) Duplicate copy to be returned to the exporter/his authorised agent after endorsing the quarantine order and receipt of payment.</p> <p style="text-align: center;">Contd., on 2 page</p>		

FOR PLANT QUARANTINE USE:

Assessment of fees:				Receipt of payment:
Commodity	Wt.(Kg)/No. of pieces	Particulars of fees	Amount (Rs)	Received from M/s. _____ _____ an amount of Rs. _____ (Rs. _____) (in words) by cash /DD /BC /PO /T.R.No. _____ dt: _____ drawn on _____ (Name of the bank & branch) towards inspection fees/outside inspection fees/other charges.
		1. Inspection fees		
		2. Outside Inspection charges		
		3. Others (TA/DA) :		
		Total		
(Rupees _____) (In words) Date: _____ Assessed by _____ Checked by _____ _____ Sign. of tech staff Sign. of authorized officer				Date: _____ Received by _____ Verified by _____ _____ Sign. of Cashier Sign. of AO
QUARANTINE ORDER NO. : _____				
(1) The exporter/authorised agent of the exporter is directed to present the consignment/containers/vessel lying at _____ for inspection/sampling on _____ at _____ by _____. (2) The exporter/authorised agent will provide necessary facilities to undertake inspection/sampling of consignment/container/vessel (3) The exporter/authorised agent of exporter is advised to produce the following documents viz., Permit to Import/ Letter of Credit/ Trade Contract/ PQ specifications, if any, of the country of export, for necessary scrutinization and issue of Phytosanitary Certificate. Date: _____ Station: _____ (Name/Sign. Authorised officer)				

Annexure-12 (B) – Physical Document

SPECIMEN FORMAT OF DECLARATION

(TO BE GIVEN BY THE EXPORTER ON THEIR LETTER HEAD TO THE PSC
ISSUING AUTHORITY NOTIFIED FOR ISSUE OF PSC FOR EXPORT OF
POMEGRANATE TO EUROPEAN UNION)

- 1) I, _____, resident of _____, have/operate from packhouse having APEDA Packhouse Recognition No. _____ dated _____ valid up to _____ and which is located at the following address :

- 2) I/We, hereby, certify that _____ MTs of Pomegranates have been procured for export from plot(s) bearing plot registration numbers as given below after drawl of samples as per the procedure prescribed in Annexure - 8 of the “Regulation of Export of Fresh Pomegranates to the European Union through Control of Pesticide Residues” issued by Apeda.
 - a) _____ renewed on _____
 - b) _____ renewed on _____
 - c) _____ renewed on _____ etc.

- 3) The laboratory analysis reports bearing No. _____ dated _____ pertains to the Pomegranate quantities referred to in para (2) above.

- 4) I/We propose to effect export of the Pomegranates referred to above to _____ (destination) and these have been processed and packed under my supervision in the packhouse referred to in para (1) above.

- 5) I/We certify that the Pomegranates referred to above are contained in _____ number of boxes/cartons and that the lab. analysis report establishes that the Pomegranates do not contain pesticide residues exceeding the MRLs with respect to the destination, referred to in para (4) above, stated in Annexure -10 of the “Regulation of Export of Fresh Pomegranates to the European Union through Control of Pesticide Residues”.

- 6) I/We certify that I/we have verified the registration records (as given in the format of Annexure – 2) as well as Annexure – 5(B) of the plot(s) from where Pomegranates have been harvested for this consignment and that the plot(s) fulfil(s) the procedure laid down in the “Regulation of Export of Fresh Pomegranates to the European Union through Control of Pesticide Residues”.

- 7) I/We certify that the consignment covered by this declaration does not contain Pomegranates from unregistered plot(s) or from plot(s) whose registration has been cancelled/suspended or from plot(s) that have not cleared the residue tests prescribed by the procedure contained in the "Regulation of Export of Fresh Pomegranates to the European Union through Control of Pesticide Residues".
- 8) I/We certify that, as on this date, the NRL has not issued any Internal Alert Information in respect of the samples drawn by them from the pack house (referred to in para - 1 above) and from the farms/plot(s) (referred to in para - 2 above).

OR

It is certified that the NRL had issued an alert for Plot Registration No. _____ vide Internal Alert Information No. _____ and, subsequently, the same has been revoked vide their Notification No. _____ after re-sampling.

(strike out whichever is not applicable)

- 9) I/We certify that the Agmark inspection of the above consignment has been carried out by _____ (name of laboratory) and that the CAG No. _____ pertains to the above consignment.
- 10) I/We certify that the above information/declaration is true and correct.

Date :
Place:

Signature of Authorized Signatory
of Exporter/Farmer

Name and address

Annexure-12(C)**List of the State Phytosanitary Certificate Issuing Authorities notified for Issue of PSC for export of Pomegranate to European Union****1. MAHARASHTRA**

Sr. No.	District	Authority & Office Address	Code No.	Phone & Fax No
1.	Pune	Deputy Director of Agriculture , Commissionerate of Agriculture Krushi Bhavan, Shivajinagar, Pune-411005	'S' (MAH) 5	P : 9520-25534349 F : 9520-25510684 dagriprocess@rediffmail.com
2.	Pune	Agriculture Officer , Commissionerate of Agriculture Krushi Bhavan, Shivajinagar, Pune-411005	'S' (MAH) 1	P : 9520-25534349 F : 9520-25510684 gghande@rediffmail.com
3.	Nasik	Deputy Director of Agriculture, Office of the District Superintending Agriculture Officer, Behind old Civil Hospital, Shalimar, M.G. Road, Nasik-422001	'S' (MAH) 6	P : 95253-2502135 F : 95253-2595136 distup- nsk@rediffmail.com
4.	Nasik	Agriculture Officer, Office of the District Superintending Agriculture Officer, Behind old Civil Hospital, Shalimar, M.G. Road, Nasik-422001	'S' (MAH)2	P : 95253-2502135 F : 95253-2595136 distup_nsk@rediffmail.com
5.	Solapur	Deputy Director of Agriculture, Office of the District Superintending Agriculture Officer, Central Administrative Building, Near Rangbhavan, Solapur-413001	'S' (MAH) 7	P : 95217-2726013 F : 95217-2626845 dsaosolapur@gmail.com
6.	Solapur	Agriculture Officer, Office of the District Superintending Agriculture Officer, Central Administrative Building, Near Rangbhavan, Solapur-413001	'S' (MAH)3	P : 95217-2726013 F : 95217-2626845 dsaosolapur@gmail.com
7.	Sangli	Deputy Director of Agriculture, Office of the District Superintending Agriculture Officer, Taluka Seed Farm, Kupwad Sangli Miraj Road, Vishrambaug, Sangli - 416416	'S'(MAH)8	P : 95233-2305412 F : 95233-2325787 san_sonavane@sancharnet.in
8.	Sangli	Agriculture Officer, Office of the District superintending Agriculture Officer, Taluka Seed Farm, Kupwad Sangli-Miraj Road, Vishrambaug, Sangli - 416416	'S' (MAH)4	P : 95233-2305412 F : 95233-2325787 san_sonavane@sancharnet.in

2. KARNATAKA

Sr. No.	District	Authority & Office Address	Code No.	Phone & Fax No
1	Bangalore	The Officer-in-Charge, Central Integrated Pest Management Centre, "Javik Bhawan", Kannamangla, Post vis Kadudongi, Bangalore	'C' (PPQS) 1(18)	
2	Bangalore	Deputy Director (Entomology), Directorate of Agriculture, Seshadri Road, Bangalore	'S' (KAR 1)	
3	Bangalore	Director of Horticulture, Government of Karnataka, Lal Bagh, Bangalore.	'S' (KAR 3)	
4	Bangalore	Deputy Director (PP), Directorate of Agriculture, Seshadrari Road, Bangalore	'S' (KAR) 2)	

3. ANDHRAPRADESH

Sr. No.	District	Authority & Office Address	Code No.	Phone & Fax No
1	Visakhapattinam	The Officer-in-Charge, Plant Quarantine & Fumigation Station, The Harbour, Visakhapattinam - 35	'C' (PPQS) 1 (17)	
2	Hyderabad	Officer-in-Charge, Plant Quarantine Regional Station, National Bureau of Plant Genetic Resources, Rajendra Nagar, Hyderabad - 30.	'C' (NBPGR) 4 (2)	
3	Chickmangalore	Director of Research, Central Coffee Research Institute, Coffee Research Station, Chickmangalore District 577 117	'C' (CRS) 5 (1)	
4	Chickmangalore	Joint Director (Research) & Head, Division of Plant Pathology, Central Coffee Research Institute, Coffee Research Station, Chikmangalore.	'C' (CRS) 5(2)	

5.	Hyderabad	Joint Director of Agriculture (PP), And Principal, Agriculture Staff Training Institute, Old Malakpet, Hyderabad	'S' (AP) 1	
6.	Hyderabad	Assistant Director of Horticulture (Vegetables), Directorate of Horticulture, Andhra Pradesh, Hyderabad.	'S' (AP) 4	
7.	Hyderabad	Assistant Director of Agriculture (Ent.), Agriculture Staff Training Institute, Old Malakpet, Hyderabad	'S' (AP) 2	
8.	Visakhapattinam	Assistant Director of Horticulture, Visakhapattinam District, Visakhapattinam.	'S' (AP) 5	
9	Hyderabad	Deputy Director of Horticulture (Fruits), Directorate of Horticulture, Andhra Pradesh, Hyderabad	'S' (AP) 3	
10	Rajamundry	Assistant Director of Horticulture, East Godawari District, Rajamundry.	'S' (AP) 6	

Annexure-13 – Electronic Document

INTERNAL ALERT INFORMATION

(TO BE ISSUED BY NATIONAL REFERRAL LABORATORY)

Phone: 020-6914245; Fax: 020-6914246; E-mail: nrcgrape@mah.nic.in

Alert Information No.....

Original

Sub: Detection of ____ pesticides beyond MRLs Page: No__ of __Pages

- 1. Name of the commodity and variety :
- 2. Plot Regn. No. and date of renewal :
- 3. Code Number of the produce, if any :
- 4. Date of harvest :
- 5. Date of sampling :
- 6. Place of sampling : Plot
 Pack-house
- 7. Period of analysis : to
- 8. Findings of the analysis

9. Recommendations by National Referral Laboratory

Date : _____
Place : _____

Signature of the Co-ordinator/
Authorized Signatory of NRL
along with seal

- Copies to :
- 1. Concerned Agriculture/Horticulture Officer
 - 2. State Governments
 - 3. All PSC issuing authorities
 - 4. APEDA, New Delhi
 - 5. All nominated laboratories
 - 6. Growers' Federation
 - 7. Farmers' Association
 - 8. Exporters' Association

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.

* * * * *