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PROCEDURE FOR EXPORT OF POMEGRANATES



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PROCEDURE FOR EXPORT OF POMEGRANATES**Background**

Monitoring of residue levels of agrochemicals permitted for use by the Central Insecticide Board and Registration Committee (CIB&RC) for pomegranates is a major concern. It is essential that adequate monitoring through proper surveillance should be in place to eliminate the possibility of detection/presence of the residues of agrochemicals and any other contaminants in pomegranates in excess of prescribed levels of the importing countries. Accordingly, it is necessary to check/verify agro chemicals used in the cultivation of pomegranates for exports complying with food safety norms of importing countries. It is also essential to grade the pomegranates according to the Agmark standards before issue of the Phyto Sanitary Certificate (PSC). In order to ensure implementation and compliance, following procedure would be followed:

1	Objective	1.1	To establish a system for controlling residues of agrochemicals in exportable pomegranates at the farm and plot level.
		1.2	To monitor chemical residues in soil and water at pomegranate farms or plots and pack houses.
		1.3	To facilitate export of pomegranates by establishing a surveillance system for controlling residues of chemicals registered by CIB&RC and/or as recommended by the National Research Centre for Pomegranates (NRCP) during cultivation of pomegranates as well as for traces of other chemicals, 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 these procedures as well as in the event of issuance of an Internal Alert Information.
		1.5	To ensure that pomegranates exported from India to the European Union (Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom) as well as other countries following EU food safety norms do not test for agro chemicals residues in excess of the prescribed levels.
		1.6	To establish a mechanism to provide grade classification of pomegranates through grant of 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 as well as other countries following EU food safety norms.
2	Scope	2.1	All pomegranates farms and plots, which intend to produce pomegranates for export, exporters, APEDA recognized pack houses, APEDA recognised laboratories authorized for sampling, analysis and grading of pomegranates and personnel engaged by them, NRL, NRC Pomegranates, Central Insecticide Board, DMI, respective State Government departments of Agriculture/ Horticulture, Indian Council of Agriculture Research (ICAR) and any other agencies/ stakeholders including extension providers in any form to the farmers, producers and exporters of pomegranates cultivating for exports.
		2.2	To facilitate web-based traceability through AnarNet with the objective of tracing and tracking of processes implemented product recall, single window clearance and reducing paper work.
3	Procedure for registration of farms producing pomegranates for exports	3.1	Each farmer/lessee farmer/lessee farming organization who directly controls farming operations, who intends to export directly or supply 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 farmer/lessee farmer/lessee farming organization District Superintending Agriculture/ Horticulture Officer shall physically verify the correctness of the information submitted. 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 not on the basis of any other records. He shall also verify that plots(s) is/are not under suspension/cancelled for export. In the plot(s), the Agri./Hort. Office shall take possession of the Registration Certificate from the farmer. 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.
		3.3	Each farmer/lessee/lessee organization will maintain the registration and agrochemical application records as per the format titled, "Plot Registration and Field Agrochemical Application Record" given in the Annexure-2 . The farmer/the lessee/the lessee organization 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

			agrochemical residues if Annexure-2 is not completed by the farmers/lessee/lessee organization and a copy provided to the laboratory.												
		3.4	It shall be the responsibility of Agriculture/Horticulture officers to ensure that information required Annexure-2 is uniformly and completely maintained.												
		3.5	The Annexure-2 must describe the layout with detail of the adjoining farms/plots. A drawing/sketch of the layout, giving detailed description or benchmark including directions for identification, also showing details of late registration plots. Where applicable, should be enclosed with this Annexure (see paras 3.6, 3.13 and 4.3). The drawing/sketch must also be signed by the Agri/Hort Officer under his official sea.												
		3.6	<p>The following guidelines are required to be followed by the Agri/Hort Officer 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 sup-station, etc), canals, foot-paths, are 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 unto 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 registration number by adopting only the following code format:</p> <table border="1" data-bbox="683 1476 1417 1591"> <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
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		3.8	The plot registration certificate shall be issued only through AnarNet.												
		3.9	One plot will constitute a maximum area of Ha. Or part thereof. For marginal adjustments, the area may be extended to a maximum of 1.2 Ha Further, in case, different varieties are grown in the same plot or even if it is less than 1 Ha it will be treated as a separate plot and will have separate registration numbers.												

		3.10	If there is only one plot in a farm, even then the registration number will be upto the level by mentioning '00' at the end, e.g. AA-11 22 33 4444 00
		3.11	Each plot in the farm shall be registered separately, e.g. AA-11 22 33 4444 01 farm are not intended to be utilised for exports, it/these will still have to be registered by the same procedure.
		3.12	Amendments, if any, in the Registration Certificates, shall be made only by the authorised Govt. officials after due verifications and under their signature.
		3.13	The registration will be valid for one year. Therefore, all the registered pomegranates farmers shall renew their farm registration every year and a fresh certificate showing renewal of the plot will be issued.
		3.14	A farmer should apply for registration/renewal baharwise at pruning time. Ambe Bahar: Dec-Jan, Mrig Bahar- May-June, Hasta Bahar- Aug-Sept.
		3.15	A farmer/lessee farmer/lease farming organization 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/lessee/lease organization expects a good crop and intends to export his produce, he should register the plot well before the maturity stage. The registration will be subject to the satisfaction of the Agri/Hort Officer with regard to maintenance of spray records and their uniformity with Annexure-2. In such cases, registration will be done after residue analysis of pomegranates (at farmer's cost/lessee farmer/lease farming organisation's cost) from such plot areas.
		3.16	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/ lessee /lessee organisation, village, taluka, mandal, district, Survey No./Gat. No. (This is a critical information), variety wise area, age of plot(s) and package of practices to be followed by the farmer/lessee/lessee organisation for production of pomegranates. a) The Registration/Renewal Certificate would be accompany by following instructions, which shall also be signed by the Agri/Hort Officer under his official seal to follow only the recommended farming practices.

			<p>b) That farmer/lessee farmer/lessee farming organisation shall not use agrochemicals other than those allowed for use on pomegranates and listed in Annexure – 5.</p> <p>c) That farmer shall not use agrochemicals other than those allowed for use on pomegranates and listed in Annexure-5.</p> <p>d) Misbranded, un-recommended or banned agrochemicals or any other harmful chemicals shall not be used.</p> <p>e) After drawl of samples for residue testing, spraying/application of any agrochemicals shall not be carried out.</p> <p>f) Not to allow sampling or exports of pomegranates from unregistered farms.</p> <p>g) Amendments, if any, on the registration records or the Registration Certificate issuing authority.</p>
		3.17	All farmers/lessee farmer/lessee farming organisation 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.
		3.18	Each farmer, at the time of harvest, shall give 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. The declarations 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. This declaration shall be handed over to the exporter at the time of harvesting of the produce.
		3.19	The exporter shall, at the time Agmark inspection, provide Annexure-4 to the laboratory representative.
4	Procedures for District Superintendent Agriculture/Horticulture Officers	4.1	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/lessee farmer/lessee farming organisation 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.
		4.2	In the interest of information flow in the AnarNet, the Annexure-4(B) is required to be filled up by the Agri/Hort Officer through the AnarNet, otherwise the farmers/lessee farmer/lessee farming organisation and exporters will face problems as the software will not move forward and lab analysis cannot take place.
		4.3	In case of late registration of the plot(s) before ripening/maturity (please see para 3.13), the Agri/Hort Officer, during first inspection, will have to clearly demarcate such areas of the plots giving 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)
		4.4	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.
		4.5	The farmer/lessee farmer/lessee farming organization and the Agri./Hort. Officer must sign and write their complete official address on each form (Annexure 4-A to 4-B). This is mandatory.
		4.6	The State Governments shall maintain plot registration data in the specified format 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.
		4.7	The Agri/Hort Officer shall not recommend drawl of samples by the laboratories in Column 15 of Form 4(B) if the farmer/lessee farmer/lessee farming organization 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.
		4.8	The recommendation for allowing drawl of samples shall be made by Agri/Hort Officer only through AnarNet. It is to be noted that, in the software, this recommendation can be made only after 30 days of registration of the plot.

		4.9	In case, the farmer farmer/lessee farmer/lessee farming organization /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 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/lessee farmer/lessee farming organisation 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 agrochemicals 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 agrochemicals/pesticides are allowed to be used by the farmers/lessee farmer/lessee farming organisation, 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 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/lessee farmers/lessee farming organisations/ 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 intended for exports shall be drawn for testing by the nominated laboratories and NRL listed in Annexure-6 of this procedure.
		5.3	Samples for laboratory testing shall be drawn by a representative of lab 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/Numbers will remain the key numbers for all purposes.
		5.6	The samples of pomegranates, soil and water shall be drawn in the presence of farmer/lessee farmer/representative of lessee farming organisation and exporter as per the procedure given in Annexure-7 .
		5.7	Each sample will be drawn from the concerned plot/ plots/ farm, packed separately in two 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/lessee farmer/representative of lessee farming organisation, 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.
		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 authorised representative on the sample slip with those given on Annexures- 4(A) and 4(B).

		5.9	<p>Laboratories shall not draw samples plot(s) under the following conditions :</p> <ol style="list-style-type: none"> a) If the plot(s) is/are not actually registered with the Distt. Agri./Hort. Office or the plot(s) is/are under suspension/have been cancelled for export to the E U. b) If the Registration No. of the plot(s) is not in the coding format given in para 3.7 above, c) If the farmer/exporter fails to provide a copy of the Registration Certificate along with sketch/ drawing of the layout of the adjoining plots (please see paras 3.5 and 3.6 above), d) In case of any inconsistency (10% variation allowed) in the calculation of area of plot/plots/farm and likely production stated in the Annexures-2 (for area purposes) and 4(B), e) Unless there is a clear recommendation by the Agri/Hort Officers in Column 15 of the Annexure-4(B) to this effect, 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), g) Until the laboratory representative has verified that the sample is being drawn from the plot/plots/farm whose registration is valid, h) Until relevant calculations have been carried out as per procedure given in Annexure-7, and i) Unless the sample slip, duly filled, accompanies the sample. The samples and the sample slip will go together to the laboratory. 																				
		5.10	<p>For movement of the samples from farm 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="685 1675 1474 1864"> <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>	Person	Name	Date	Sign	Sampler				Courier-1				Courier-2				Laboratory			
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		5.11	The representative of the laboratory drawing the sample shall mark the sample with the sample slip number so as to co-relate the sample slip with the sample drawn.
		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.
		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.
		5.14	The representative of the laboratory drawing the sample shall mark the sample with the sample slip number so as to co-relate the sample slip with the sample drawn.
6	Accreditation/recognitions requirements and responsibility of authorized laboratories	6.1	The authorized laboratories shall be accredited to the National Accreditation Board for Testing and Calibration Laboratories (NABL) to ISO/IEC-17025.
		6.2	The authorized laboratories shall have a valid APEDA recognition under its scheme for laboratory recognition.
		6.3	The authorized laboratories shall carry out sampling as per method of sampling given in Annexure-7 and shall, at the request of the concerned farmer/exporter, test the pomegranates for residue levels of the chemicals, a recommended list of which is given in Annexure-9 . Annexure-9 also consist names of chemicals banned in India or EU.
		6.4	Based on the findings of the previous season for the banned chemicals, soil and water testing shall be done from farm areas identified by the NRL. The test report should reflect the detection limits and results. Copy of report shall be provided by the laboratories to the State Government/Farmer/exporter/Registration Authority and NRL.
		6.5	After ensuring that para 5.7 to 5.9 are complied with, the recognised laboratory shall nominate its representative for drawing samples of pomegranates, soil and water as per the procedure given in Annexure-7.
		6.6	The certificate of residue analysis shall be issued as per the format given in Annexure-10 only through the AnarNet with digital signature of the representative of Laboratory. The residue analysis

			certificate must be issued within six days of the drawl of samples. This includes the day of sampling also. The authorized laboratory would issue residue analysis certificate of detected agro chemicals, however, upload in AnarNet all the agrochemicals under monitoring.
		6.7	The laboratory shall calculate the area of the farm/plot(s) [Sr. No. 5] and total likely production of the farm/plot(s) [Sr. No. 6] declared in Annexure-10 on the basis of Annexure-2 (for area purposes) and Annexure-4(B) only. Inconsistency beyond the 10% variation, if any, observed in the two documents shall be immediately reported by them to the NRL/State Government [please see paras 5.9 (d) and 8.13].
		6.8	In case, the test results exceed the MRLs with respect to the destination of the consignment declared by the exporter/ farmer/ lessee farmer/lessee farming organisation, 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 agrochemicals 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/lessee farmer/lessee farming organisation /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 inspection of the authorized laboratories may be carried out by NRL/PSC issuing Authority without prior notice to the laboratory (see para 9.4).
		6.11	The authorized laboratories shall participate in the training/inter-laboratory proficiency testing organized by the NRL. The laboratories shall inform in writing to APEDA and NRL before commencement of the sampling and analysis of pomegranates regarding their competence and readiness.
		6.12	The authorized laboratories shall not add any additional statement/disclaimer with regard to sampling, analysis and grading of pomegranates meant for exports.

		6.13	In case the authorized laboratories observe or arrive at an impression during the course of the analysis that there is likelihood of the presence of a chemical not listed in Annexure-9, the same shall be immediately (within 24 hours) brought to the notice of NRL/State Government/Inspecting Authority and Horticulture/ Agriculture Officer alongwith, where possible, a copy of test report.
7	Procedure for issue of Certificate of Agmark Grading (CAG) and Phyto Sanitary Certificate (PSC)	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 shall be issued only after receipt of the inspection report from the laboratories through AnarNet. The exporters shall ensure availability of the chemicals, apparatus, etc. as given in Appendix-(i) to the Annexure-11 .
		7.2	The farmer/exporter shall request one of the Government of India notified under Quarantine Regulation (IPPC 1951) to State PSC Authorities to issue the Phyto Sanitary Certificate along with application prescribed annexure with other necessary documents as prescribed by Plant Protection Advisor, Government of India or their nominated laboratories to issue the Phyto Sanitary Certificate alongwith the Exporter's/Shipper's declaration given in Annexure-12 electronically with scanned copy of fumigation certificate, if any and the container loading sheet/packing list/proforma invoice/copy of LC. The laboratory shall verify the following documents at the time of inspection : a) Packhouse Recognition Certificate issued by APEDA, and b) Certificate of Authorization issued by DMI. c) Fumigation certificate for wooden packing material issued by the Government of India accredited MBR fumigator as per NSPM-12. d) Agmark Grading certificate issued by DMI. e) Copy of Contract/LC for additional declaration regarding quality, quarantine issues and pest and diseases to be given in the Phytosanitary certificate to fulfil the quarantine regulations of importing country.
		7.3	The onus of proving veracity of the contents of the Annexure-12 lies with the exporter/shipper.

		7.4	The PSC Authority shall issue the PSC only after fulfilments 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: (I) signature of farmer/lessee farmer/lessee farming organisation on the sample slip matches with those given on Annexures 3, 4(A) and 4(B).
		7.5	The PSC issuing authorities shall, on random basis, at the packhouse, draw a representative sample from the consignment, which shall be sealed/marked properly and handed over to the exporter/packhouse for storage (please see para 5.12).
		7.6	The PSC official shall mark the representative sample drawn with the Laboratory Test Report Number(s).
		7.7	The container loading sheet (packing list) should contain details of farmer name, farmer code, quantity per packet, total quantity, etc.
		7.8	The exporters/recognised packhouses and laboratories shall retain representative samples (see para 7.5) of the exported pomegranates in their cold storages temperature range of 5-10°C and Relative Humidity of 90-95% for a period of 60 days from the date of test report as per directions given in Annexure-7.
		7.9	Agmark and Phyto Sanitary Certificate issuing authority shall educate the farmers, exporters and other stakeholders regarding the requirements of grading and quarantine related issues of the importing countries.
8	Responsibilities of the National Referral Laboratory (NRL) at National Research Centre for Grapes (NRCG)	8.1	The NRL shall prepare the recommended list of chemicals to be used for cultivation of pomegranates given in Annexure-5 before commencement of the cultivation season every year.
		8.2	The NRL shall submit to APEDA and State Governments proposal of the updated list of chemicals recommended for the control of various diseases and insect pests and a dynamic list of chemicals and any other contaminants to be analyzed for the pomegranates with their MRLs by June end which shall be finalized in consultation with the exporters and farmers.
		8.3	The NRL shall specify and verify method of sampling and analysis to the APEDA recognized laboratories authorized for sampling and analysis. The NRL shall make recommendations to

			APEDA for authorization of the laboratories for sampling, analysis of pomegranates for exports.
		8.4	The NRL shall prescribe the list of chemicals and their MRLs for the purpose of testing before commencement of pomegranate export season based on prescription for cultivation of pomegranates as well as EU list of MRLs of chemicals including the list of banned chemicals for exports of pomegranates. This list of chemicals to be tested for their MRLs shall be revised regularly.
		8.5	The NRL shall monitor the work of authorized laboratories by conducting surveillance audit to ascertain that they are following the criteria.
		8.6	The NRL shall compile residue analysis data of the authorized laboratories for each year. On the basis of the data, the NRL shall also prepare a plan of action for the following year.
		8.7	The NRL shall draw 5% of the samples directly from the recognised packhouses pertaining to the batches tested by the designated laboratories as a measure of conformity. The NRL shall analyze these samples and integrate the reports in the consolidated report.
		8.8	The NRL shall also evaluate 5% test data of the samples analyzed by the authorized laboratories pertaining to the batches tested by the authorized laboratories as a measure of conformity.
		8.9	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 shall advise the exporters/farmers about the control measures to be taken.
		8.10	The NRL shall evaluate the soil and water test reports to be obtained by the NRL from the authorized laboratories of the samples analyzed from the farms where banned chemical was detected in the previous season as well as on the basis of the information contained in the test reports of the current season expeditiously and suitably advise the concerned farmer/exporter and the Registration Authority (Agriculture/Horticulture Officer).
		8.11	The NRL shall bring immediately to the notice of farmers, growers, exporters, APEDA, State Governments and other stake holders regarding exceeding levels of chemicals that has been recommended by the NRL for plant protection and cultivation of pomegranates.

		8.12	The NRL shall organize training on testing of each residue or groups of residues for the authorized laboratories.
		8.13	NRL shall organize inter-laboratory/proficiency testing 2 times during the pomegranate season and guide the laboratories.
		8.14	The NRL shall organize interactive meetings of stakeholders on a regular basis. Participants in these meetings shall include farmers, exporters, CIB&RC, Agriculture/Horticulture Officers, PSC issuing authorities, Agmark officials, ICAR, any other service providers such as agro chemical producers and suppliers and APEDA.
		8.15	The NRL shall update itself, APEDA, State Governments, farmers and producers, exporters and the authorized laboratories with regard to the list of chemicals with their MRLs and method of sampling and analysis.
		8.16	Upon receipt of an alert notice from a authorized laboratory about a failed sample, the NRL shall, without delay, and in any case within 24 hours unless the NRL considers it necessary to carry out any investigation, issue an Internal Alert Information to the State Government, exporters, PSC issuing authorities, Laboratories and APEDA under intimation to the farmer in respect of the farms 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 .
		8.17	In case of Pomegranate plot/plots/farm having same package of practices and where the farmer/lessee farmer/lessee farming organisation gives an undertaking about same package of practices being followed , 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/pack house for storage. In case a Pomegranate plot/plots/farm, 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.
		8.18	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 Government (Agriculture/ Horticulture offices).

9	Powers of National Referral Laboratory	9.1	The NRL shall have the right to draw samples from registered pomegranate farms, packhouses and laboratories.
		9.2	The NRL shall have the right to verify analysis data corresponding to the samples drawn and/or tested by the designated laboratories.
		9.3	The NRL shall have the authority to recommend to APEDA and/or NABL, derecognition of authorized laboratories in the event of non-compliance with the method of sampling and analysis for pomegranates.
		9.4	The NRL shall have the authority to inspect the authorized laboratories without prior notice (see para 6.10).
10	Responsibilities of farmers, growers and exporters	10.1	The farmers/growers/exporters and any other stake holders of pomegranates shall comply with the MRLs of chemicals based on importing country's Regulations. Compliance with regulations on pomegranates such as grade, quality, safety and wholesomeness of pomegranates, pre and post harvest practices, plant and its quarantine, packing, fumigation, certification for wooden pallets, sanitary and Phytosanitary measures, any other requirements shall be the responsibility of the farmer, growers, exporters and other stake holders for exports of pomegranates.
		10.2	The farmers/growers/exporters shall be under obligation to apply only those chemicals as are recommended by NRC Pomegranates (Annexure-5). Use of spurious and contaminated chemicals and any other agri inputs for production of pomegranates shall be at the sole risk and cost of the farmers/growers/ exporters.
		10.3	The farmers/growers/exporters shall clearly inform to the PSC issuing Authority/Agriculture/Horticulture Officers regarding compliance with Good Agriculture Practices (GAP) quality/food safety management systems and/or any other compliance certification and inspection systems implemented and carried out for production, processing and exports of pomegranates as per intended use of these systems including certification and inspection carried out by the concerned agencies.
		10.4	The farmers/growers/exporters and other stake holders of pomegranates shall provide to NRC Pomegranates, the list of chemicals to be tested for exports of pomegranates. On the basis of feedback provided by the farmers, growers, exporters and other stake holders the NRL shall recommend for testing of other chemicals in consultation with APEDA.

		10.5	Samples of soil and water from the registered farms containing banned/restricted chemicals in the previous season shall be drawn for testing by the authorized laboratories and the NRL.
		10.6	While a recommended list of chemicals to be tested is given in Annexure-9, farmer/exporter shall have responsibility to check if any additional chemical is required to be tested by the authorized laboratories with respect to the farm from where the exporter is sourcing the produce based on the spray records maintained by the farmer in Annexure-2 and signed by the Inspection Authority (Agriculture/Horticulture Officer).
		10.7	The farmers/growers/exporters and any other stake holders shall have the responsibility to update and inform the list of chemicals and any other contaminants to be tested and monitored for export of pomegranates through their trade intelligence information.
		10.8	In the event of any non-compliance of the importing country's Regulations by the farmers, growers, exporters and other stake holders, the liability of losses shall remain with the farmers, growers, exporters and other stake holders.
		10.9	The farmers/growers/exporters and other stake holders shall ensure correct measure of pomegranates in their respective packing on arrival in the market until the pomegranates are lifted by the consumers from the retail market shelves.
11	Overall monitoring and responsibilities of APEDA	11.1	APEDA shall be facilitating export promotion of pomegranates as envisaged in the APEDA Act.
		11.2	APEDA may inform the Governments of importing countries and the European Commission the names, addresses of recognized packhouses as well as the designated laboratories/PSC issuing authorities notified by the Government of India and will also display the list on its website quarantine related issues of the importing countries as obtained from the Ministry of Agriculture.
		11.3	APEDA will, through the NRL, regularly monitor the functioning of each authorized laboratory to ensure implementation of the procedures laid down in these guidelines based on its testing capacity for chemicals residue analysis.
		11.4	APEDA will evaluate the weekly test results submitted by the authorized laboratories and will require that the control measures suggested by the NRL be implemented by the State Government or laboratory, as applicable.

		11.5	Where necessary, APEDA will nominate a Committee consisting of the representatives of exporters/association, 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 as amended. APEDA shall provide RMP document to the respective State Governments before start of the season for effective monitoring of traceability for exports of pomegranates.
12	Penal Provisions	12.1	<p>In the event of breach of these procedures for controlling agro chemical residues in pomegranates, APEDA may initiate action as per the provisions of section 19(3), Chapter-V of APEDA Act, 1985, in addition to the following:</p> <ul style="list-style-type: none"> a) Cancellation of the Registration-cum-Membership Certificate of exporters. b) Derecognition of packhouses. c) Notifying to DGFT for cancellation of Import-Export Code No. allocated to such exporters. d) Any other action as deemed fit.

Place: New Delhi
Date: 22.09.2015

Signed/-
Krishan Kumar
Chairman, APEDA

Annexure-1 - Physical Document

Application for Registration/Renewal of Pomegranate Plot(s) for export

(To be submitted by the farmer lessee farmer/lessee farming organisation)

To,

Registration Authority & District Superintending Agriculture Officer

Taluka----- District -----State -----

Sub: Registration/Renewal of Pomegranate Farm for Export

Dear Sir,

You are requested to kindly register / renew my pomegranate farm for export. Other necessary details are as follows:

1	Full name of the Pomegranates growers	
	Father's /Husband's name	
	Name of partners	
a	Correspondence address	
	At Post	
	Taluka	
	District	
	State	
	Telephone No with STD code no.	
	Mobile No.	
	E-mail address	
b	Farm/Plot location address (Survey No/ Plot No.) along with map/layout of the plot with indication of all sides of crop grown. (please attach copy of 7/12)	
2	Pomegranates Farm registration No. (In case of renewal of garden)	
3	Total Farm area (in Ha)	
4	Pomegranates farm is certified with Global GAP if yes give details(attach copy)	
	Certificate No.	
	Date of issue	
	Date of validity	
	Name of certification agency	

5	Number of plots in the farm with area of each plot						
	Plot no.	Area (in Ha)	Survey/plot No	Variety	Date of plantation	Date of pruning	Likely production (MT)
	Plot no.01						
	Plot no.02						
	Plot no. 03						
6	Probable date of harvesting						
7	Pack –house registration number , if any and its validity						
8	Application fee of Rs. 50/-per plot / year						
	Challan no						
	Name of treasury						
	Date of payment deposited in treasury						
9	Details about last year export						
	Quantity in MT						
	Name of Exporter						
	Name of Pack house						
	Name of Laboratory where sample was analyzed						
10	Whether Internal Alert Notice issued by NRL, Pune in previous season (In case of renewal of pomegranates farm give details)						

It is certified that the information mentioned above is correct and the plot mentioned above is not under suspension / has been cancelled for export of pomegranates.

Date:
Place:

Signature of the Farmer
Name of the Farmer

Annexure-2A Physical Document

Plot registration and field chemicals 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 pomegranates variety :
- 7) Date of planting :
- 8) Date of pruning :
- 9) Likely production :
- 10) Chemicals 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 agro chemical	Active ingredient	Batch No. & date	Target pest	Preventive/durative	Agro chemical gm/ml per litre	** Agro chemical quantity per plot	** Water per plot	Pre-harvest interval	Days to harvest		Time of spray	Name & signature of operator
												Estimated	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 1.2 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 “Procedures for Export of Pomegranates” and details of the above plot have been entered on the AnarNet maintained on the APEDA web-site.
- 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.

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

Checked and certified by Agriculture/Horticulture Officer Name and Signature:

Official address of Agriculture/Horticulture Officer (mandatory)

Date:

Place

Signature of the Farmer/Authorized Operator

Address (mandatory)

Annexure-2B Physical Document

**GOVERNMENT OF _____
DEPARTMENT OF _____
Certificate of Registration of Pomegranate Farm for Export**

This is to certify that _____ is here by registered as Pomegranates Grower/Pomegranates Exporter with the office of the District Superintending Agriculture/Horticulture officer, _____ in accordance with the Procedure for export of pomegranates.

The detail of the registered Pomegranates Grower is as follows:

Name of the Pomegranates Grower

Full Address

Village

Taluk/Mandal

District

Sr. No.	Survey/GAT No.	Plot No.	Variety	Area of Plot (Ha.)	Farm Reg. No.

- 1) Map Layout enclosed.
- 2) This certificate is valid up to
- 3) Have verified the Survey/GAT No. with respect to the registration and to the best of my knowledge the above information is correct.

Place:
Date:



MH1107120901

Registration Authority and
District Superintending
Agriculture/
Horticulture Officer

Terms & Conditions of Registration of the Pomegranates farm for Export

- a) To follow only the recommended package of practices
- b) The Farmer shall not use agrochemicals other than those allowed for use on pomegranates and listed in Annexure-5
- c) Misbranded, Non-recommended or banned agrochemicals or any harmful chemical shall not be used
- d) After drawl of sample for residue testing, spraying/application of any pesticide shall not be carried out
- e) The registered farmer shall maintain record of package of practices followed by them in a prescribed register to be prescribed by this office
- f) The registered farmer/exporter at the time of harvest shall give a declaration in annexure-5 stating that no pesticide, insecticide, weedicides etc. have been sprayed/applied after drawl of the sample for laboratory analysis
- g) No amendments will be made by them on the registration records or the registration certificate
- h) Growers are not allowed for sampling or export of pomegranates from unregistered farms
- i) Applicant should renew their certificates of registration of pomegranates garden every year before due date giving detail information

Annexure-3 - Physical Document

Declaration

(To be given by the farmer to the exporter)

I, _____, resident of _____ and having pomegranates 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 Agriculture/Horticulture 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 Procedures for Export of pomegranates, I have not sprayed any kind of chemicals or contaminants, insecticides, fungicides, weedicides, including herbal products (including growth regulators) on the pomegranates plot other than those recommended by NRC Pomegranates.
- 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 shall 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/
Authorized person by the farmer with
Plot Registration Numbers

Annexure-4 (A) Electronic Document

Inspection report of pomegranates farm/plot to be maintained by the Inspecting Authority (Agriculture/Horticulture Officer) and farmer first inspection (At the time of new registration/ renewal of pomegranates garden for export)

1	Name and address of the Farmer / grower	
	At. Post	
	Taluka	
	District	
	State	
	Phone no. with STD code	
	Mobile no.	
	E-mail address	
2	Plot Registration No and date of renewal	
3	Address of the Plot	
	Survey No. / plot no.	
	At. Post	
	Taluka	
	District	
	State	
4	Total area of the Plot Map of the Plot (Please indicate all sides of farm crop grown and attach Annexure -2 and Map layout)	
5	If late registration indicate areas demarcated	
6	Whether Plot is certified for Good Agriculture Practices (GAP) if so attach a copy of valid certificate	
	Certificate No.	
	Date of issue and validity	
7	Last year's export details	
	Quantity (MT)	
	Name of the Exporter	
	Name of Pack house	
	Name of Laboratory where sample was analyzed	
8	Whether Internal Alert Notice issued by NRL, Pune during the previous season	
	Yes/No (if yes give details of the alert notice)	
9	Date of flowering	
10	Condition of crop relating to pests & diseases & 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 database maintained on the APEDA web-site

Signature of farmer/Grower
Name of Grower

Signature of Inspecting Authority
Full Name of Inspecting Authority & full address with office seal

Annexure-4 (B) Electronic Document

Inspection report of exportable registered pomegranates farm/ plot to be maintained by the Inspecting Authority (Agriculture/Horticulture Officer) and farmer second and final inspection report for export (copy must be given to representative of laboratory at the time of sampling)

1	Farm/Plot Registration No.	
2	Name and Address of the Pomegranates Grower	
	Full Name	
	At. /Post	
	Taluka	
	District	
	State	
	Phone No/Mobile No.	
3	Address of the Farm/Plot	
	Survey No/ Gat No	
	At. Post	
	Taluka	
	District	
	State	
4	GAP Certificate No. if any	
5	Total area of the plot (Ha)	
6	First Inspection Report No. and Date	
7	Condition of the crop relating to pest and diseases and quality of the crop	
	a) Bacterial blight	Yes/No
	b) Wilt	Yes /No
	c) Leaf Fruit Sports	Yes/No
	d) Fungal Blight	Yes/ No
	e) Fruit Borer	Yes/No
	f) Stem Borer	Yes/No
	g) Mealy bug	Yes/No
	h) Thrips/Aphids/Jassids/White flies	Yes/No
	i) Mites	Yes/No
	j) Nematodes	Yes/No
	k) Weedicides	Yes/No
	i)Any other observation concerning quality (browning etc)	Yes/No
8	Verification of spray records with respect to list of agrochemicals and other agri inputs as recommended by NRC Pomegranates for control of various diseases and insect pests	Yes/ No. (if no please substantiate)
9	Likely total harvest of the plot (MT) (No of plants in Ha and average no of plant /average weight of fruit)	
10	Tentative date of harvesting	

11	Name of residue laboratory where samples being analyzed	
12	Whether agro chemicals, plant growth regulators and other chemicals spraying schedule has been as per the NRC Pomegranates recommendation	Yes/No (if no please substantiate)
13	Whether farmer has followed other advice/recommendation of Agriculture/Horticulture Officer during the year	Yes/No (if no please substantiate)
14	Whether sampling should be done by the Residue Laboratory (please see para 4.7 of procedure)	Recommended / Not recommended
15	Reason for not recommending drawl of samples (please see para 4.7 of procedures)	
16	Advice/Recommendation given to the farmer concerning incidence of pests and diseases and quality of pomegranates at this stage	
17	Date of Inspection	

Signature of Pomegranates Grower
Name of Grower

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

- CC: 1. Registration Authority (Pomegranates Farm/Plot)
2. Representative of Residue 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-7. I have obtained a copy of currently valid Registration Certificate plot drawn/map layout and that the location of this plot is as per the map. I have verified that the registration of the plots is/are valid. I have also obtained a copy of Annexure-2.

Date:
Place:

Signature
Name of authorized representative of Nominated
Laboratory with office address



NATIONAL RESEARCH CENTRE ON POMEGRANATE
(Indian Council of Agricultural Research)
National Highway 65, Kegaon, Solapur-413 255 Maharashtra, India

**Agrochemicals recommended for control of various diseases and insect pests
for export of Pomegranate**

Note: Agrochemicals with asterisk (*) with label claim rest without label claim, hence recommendation is Adhoc)

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	Streptomycin Sulphate 90% + Tetracycline hydrochloride 10%	S	0.5g/l	0.01*	55
2	Copper compounds (including Copper oxychloride 50% WP, Copper hydroxide 77% WP etc.)	NS	2-2.5g/L	20	60
B	Wilt (Fungal complex <i>Ceratocystis fimbriatam Fusarium oxysporum</i>)				
3	Propiconazole 25% EC	S	1.50 mL/L	0.05	20
4	Carbendazim 50% WP	S	2.00 g/L (drenchin)	0.1	100
5	Tridemorph 80% EC	S	1.0 mL/L 2.0 (drenching)	0.01	40
C.	Leaf Fruit Sports (<i>Alternaria alternate, Cercospora punicae, collectrichum sp., Drechslera sp., Sphaceloma sp.</i>)				
6	Copper compounds (including copper oxychloride 50% WP, Copper hydroxide 77% WP etc.)	NS	2-2.5 g/L	20	60
7	Mancozeb 75% WP	NS	2.0 g/L	0.05	90
8	*Propineb 77% WP	NS	3.0g/L	0.05	90
9	Copper hydroxide 77% WP	NS	2.0 g/L	20.0	60
10	Ziram 80% W	NS	2.0g/l	0.05	90
11	Captan 50% WP	NS	2.5g/L	0.02	35
12	Chlorothalonil 75% WP	NS	2.0 g/L	0.01	90
13	Difenoconazole 25% EC	S	1.0 g/L	0.1	90
14	Tridimefon 25% WP	S	0.5-1.0 g/L	50	40

15	Sulphur 80% WP	NS	2.5 g/L	0.1	15
16	Carbendaxim 50% WP	S	1.0 g/L	0.1	90
17	Thiophanate Methyl 70% WP	S	1.0 g/L	0.1	50
D	Fungal Blight (Phytophthora sp)				
18	Mancozeb 75% WP	NS	2.0g/l	0.05	90
19	Copper Compounds (including Copper oxychloride 50% WP, Copper hydroxide 77% WP etc)	NS	2-2.5 g/L	20	60
20	Metalaxyl 8%+Mancozeb 64% (Metalaxyl MZ 72% WP)	S	2.5 g/L	0.05+0.05	90
21	Cymoxanil 8%+Mancozeb 64% (Curzate M8)	S	2.0 g/L	0.05+0.05	90
22	Fosetyl- AI 80% WP	S	1.0 g/L	75	30
23	Dimethomorph 50% WP	S	1.0 g/L	0.05	66
24	Azoxystrobin 23 SC	S	0.5-1.0 ml/l	0.05	45
25	Pyraclostrobin 20%	S	1.5 kg/ha	0.02	60
Insect Pests					
A	Fruit Borer (Deudorix isocrates)				
26	Indoxacarb 14.5% SC	NS	0.5 mL/L	0.02	30
27	Spinosad 45% SC	NS	0.5 mL/L	0.02	28
28	Cypermethrin 25% EC	NS	1.0 mL/L	0.05	40
B	Stem Borer (Celosterna spinator), short hole borer (Xyleborus fernicatus), shot hole borer (Xyleborus fernicactus)				
29	Chlorpyrifos 20% EC	NS	2.0 mL/L	0.05	40
30	Indoxacarb 14.5% SC	NS	0.5 mL/L	0.02	30
31	Spinosad 45% SC	NS	0.5 mL/L	0.02	28
32	Cypermethrin 25% EC	NS	1.0 mL/L	0.05	40
E	Mealy bug (Ferrisia Vigrata)				
33	Chlorpyrifos 20% EC	NS	2.0 mL/L	0.05	40
34	Dimethoate 30% EC	S	0.5 mL/L	0.02	30
35	Imidacloprid 17.8% SL	S	0.5 mL/L	0.02	28
36	Thiamethoxam 25% WG	S	1.0 mL/L	0.05	40
37	Methomy1 40 SP	S			
F	Thrips/Aphids/Jassids/White flies				
38	Dimethoate 30% EC	S	1.0 mL/L	0.02	100
39	Imidacloprid 17.8% SL	S	0.3 mL/L	0.05	90
40	Acetamiprid 20 SP	S	0.3 mL/L	0.01	90
41	Thiamethoxam 25% WG	S	0.25 g/L	0.05	40
42	Lambda-Cyhalothrin 05CS	NS	0.20-0.5 ml/l	0.02	80
43	*Cyantraniliprole 10.26% OD	S	0.7-0.9 ml/l	0.02	90
G	Mites				
44	Propargite 57% EC	NS	1.0 mL/L	0.01	15

45	Abamectin 1.9% EC	S	0.5 mL/L	0.01	30
46	Azadirachtin 1%		2.0 mL/L	0.01	3
H	Nematodes				
47	Azadirachtin 1%	NS	2.0 ml/L	0.01	3
48	Phorate 10 G	S	25g/plant	0.01	Data not available
49	Carbofuran 3G	S	40g/plant	0.01	Data not available
I	Weedicide				
50	Glyphosate	S	4-6ml/l	0.1	Data not available

NS= Non systematic, S= Systemic

Note:

- As the data based on scientific field trials on PHI for pomegranate are not available for most chemical hence, PHI given are only indicative and adhoc in nature as are based on PHIT for other fruit crops grown in similar climatic conditions and residue analysis of limited samples of harvested produce in past years, hence, may change at later stage on availability of scientific data and are of advisory nature and therefore, not covered under any legal scrutiny.
- Recommended of agrochemicals for the management of various insect pests and diseases along with their dose, PHI and MRL values are recommendations by SAUs, ICAR Institutes & research literature and of advisory nature for the Good Agriculture Practices and therefore, not covered under any legal scrutiny.
- All the doses mentioned above are for high volume sprayers, where normal spray volume is 800-1000 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.

List of authorized laboratories for AnarNet

No.	Name and contact details of the laboratory	Scope
	National Research Centre on Grapes (Indian Council of Agricultural Research) P.B. No. 3, Manjri Farm Post, Solapur Road, Pune 412 307 Tel.: +91-20-26956002 EPABX: +91-20-26956000 Fax: +91-20-26956099 nrcgrapes@gmail.com; apedanrl@gmail.com;	NRL for products of plant origin & NABL accredited
1	Centre for Food Testing, Bharati Vidyapeeth Deemed University Centre for Advanced Research in Pharmaceutical Sciences Building 5 th Floor Erandwane Paud Road Erandwane Pune 411 038 Tel: 020-65737381,82,83 cft.bvdu@gmail.com;	Recognized by APEDA & NABL accredited
2	Envirocare Labs Pvt. Ltd. A-7 MIDC Wagle Industrial Estate Main Road Thane 400 604 Tel: 022-25838286-88 Fax: 25838289 info@envirocare.co.in;	-do-
3	First Source Laboratory Solutions LLP (Analytical services)1 st Floor Plot No. A1/B, IDA Nacharam Cross Road Hyderabad 500 076 Tel: 040-27177036 Fax: 040-27174037 crm@firstsourcels.com; sudhakar@firstsourcels.com;	-do-
4	Geo Chem Laboratories Pvt. Ltd. Pragati, Adjacent to Crompton Greaves Kanjur Marg (E) Mumbai 400 042 Tel: 022-61915100 Fax: 022-61915101 neel@geochemgroup.com; sureshbabu.p@geochem.net.in; laboratory@geochem.net.in;	-do-
5	Interfield Laboratories XIII/1208, Interprint House Kochi 682 005 Tel: 0484-2217865, 2210915, 221838 mail@interfieldlaboratories.com;	-do-
6	MicroChem Silliker Pvt. Ltd. MicroChem House A-513 TTC Industrial Area MIDC Mahape Navi Mumbai 400 701 Tel: 022-27787800 deepa@microchem.co.in; dhanya.dhumal@microchem.co.in; vidhya.gangar@microchem.co.in; ajit@microchem.co.in;	-do-
7	National Collateral Management Services Limited (NCMSL) Team Towers, 4 th Floor, Plot No. A-1/2/A Industrial Park IDA-Uppal Hyderabad 500 039 Tel: 040-66374700, 09959333267 Ganesh.r@ncmsl.com; vidya.k@ncmsl.com;	-do-
8	SGS India Pvt. Ltd. Opposite to State Bank of India 28 B/1 (SP), 28 B/2 (SP) 2 nd Main Road Ambattur Industrial Estate Chennai 600 058 Tel: 044-66693109 Fax: 044-24963075 Av.Abraham@sgs.com; manojit.pal@sgs.com;	-do-
9	TUV India Pvt. Ltd. (TUV Nord Pune) Survey No: 423/1 & 3/2 Near Pashankar Auto (Baner) Sus-Pashan Road Pune 411 021 Tel: 020-67900000 vk Gupta@tuv-nord.com; foodlab@tuv-nord.com; mumbai@tuv-nord.com;	-do-
10	TUV Sud South Asia Pvt. Ltd. No. 151, 2nd C Main, 2nd stage Peenya Industrial Estate Bangalore 560058 Tel: 080-67458000 Fax: 080-67458058 suresh.kumar@tuv-sud.in; meena.mariappan@tuv-sud.in; farhan.ayasha@tuv-sud.in;	-do-
11	National Horticultural Research & Development Foundation (NHRDF) Pesticide Residue Analysis Laboratory Research Complex Chittoogan Phata P.O. Darna Sangvi Tq. Niphad Nashik Aurangabad Road Nashik 422 003 Tel: 02550-237551, 237816 Fax: 237947 nhrdf_nsk@sancharnet.in; drpkgupta11@gmail.com;	-do-
12	Reliable Analytical Laboratories Pvt. Ltd. 125/139 Indian Corporation Mankoli Gundavli Bhiwandi Thane 421 302 Tel: 02522-398100 harshal@reliablelabs.org; rashmi@reliablelabs.org; vikas@reliablelabs.org; meenal@reliablelabs.org;	-do-
13	Chennai Mettex Lab Private Limited Jothi Complex No. 83 MKN Road Guindy Chennai 600 032 Tel: 044-22323163, 42179490/91 Fax: 044-22311034 vks@mettexlab.com; drbala@mettexlab.com	-do-

Method of sampling for pomegranates from the farm/plot to be followed by authorized laboratories/NRL

A. Procedure for sampling table pomegranates for analysis

1. Who will draw the sample?

Individuals authorized by the nominated laboratory of the APEDA (as per Annexure 6) will only draw the samples.

- Individuals authorized for the sampling table pomegranates should have letter of authorization from the recognized nominated laboratories.
- Individuals authorized for the sampling should also 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.)

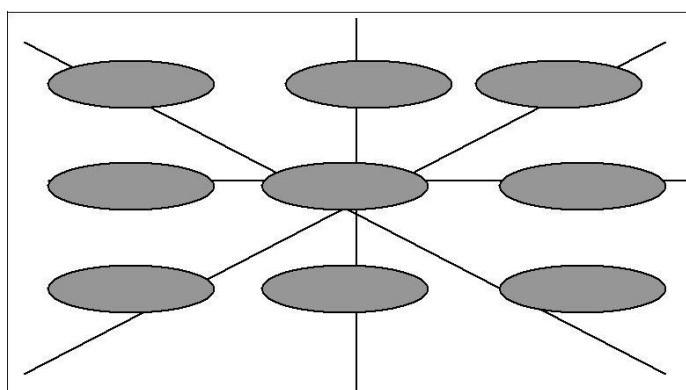
So, one plot (Four hectares) contains 2,960 Plants spaced at 15ft. by 10 ft. distance.

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



- One sample to be drawn from group of plots having similar package of practices instead of restricting & making it mandatory to draw one sample per plot....Refer Global GAP version IFA4.0_Mar11_AF_CB_FV_4.0-2 clause no CB 8.6
- 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 secateurs. 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 labelled 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

- Secateurs 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 agrochemicals

In case of orchards, were the fruits containing banned agrochemicals were 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 agrochemicals

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

List of agrochemicals to be analyzed for export of Pomegranates

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
1	1-Naphthylacetic acid (alphanaphthyl acetic acid)	BLQ	BLQ	0.05*	LC-MS/MS	0.05
2	2,4-D (sum of 2,4-D and its esters expressed as 2,4-D)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
3	2-Bromo-2-nitropropane-1,3-diol	BLQ	BLQ	0.01*	GC-MS/MS	0.01
4	4-bromo-2-chlorophenol (metabolite of Profenophos)	BLQ	BLQ	0.01*	GC-MS/MS	0.01
5	4- CPA (4 Chlorophenoxy acetic acid)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
6	6-Benzyl adenine	BLQ	BLQ	0.01*	LC-MS/MS	0.01
7	Abamectin (sum of avermectin B1a, avermectinB1b and delta-8,9 isomer of avermectin B1a)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
8	Acephate	BLQ	BLQ	0.01*	LC-MS/MS	0.01
9	Acetamiprid	BLQ	BLQ	0.01*	LC-MS/MS	0.01
10	Alachlor	BLQ	BLQ	0.01*	LC-MS/MS	0.01
11	Aldrin (Aldrin and dieldrin combined expressed as dieldrin)		BLQ	0.01*	GC-MS/MS	0.01
11.1	Aldrin	BLQ	BLQ	0.01*	GC-MS/MS	
11.2	Dieldrin	BLQ		0.01*	GC-MS/MS	
12	Allethrin and Bioallethrin	BLQ	BLQ	0.01*	GC-MS/MS	0.01
13	Ametoctradin	BLQ	BLQ	0.01*	LC-MS/MS	0.01
14	Atrazine	BLQ	BLQ	0.05*	LC-MS/MS	0.01
15	Azadirachtin	BLQ	BLQ	0.01*	LC-MS/MS	0.01
16	Azoxystrobin	BLQ	BLQ	0.05*	LC-MS/MS	0.01
17	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
18	Bendiocarb	BLQ	BLQ	0.01	GC-MS/MS	0.01
19	Benfuracarb	BLQ	BLQ	0.02*	LC-MS/MS	0.01
20	Benomyl (see carbendazim)	BLQ	BLQ	0.1*	LC-MS/MS	0.01
21	Bifenazate	BLQ	BLQ	0.01*	LC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
22	Bifenthrin	BLQ	BLQ	0.05*	GC-MS/MS	0.01
23	Bitertanol	BLQ	BLQ	0.01*	LC-MS/MS	0.01
24	Buprofezin	BLQ	BLQ	0.05*	LC-MS/MS	0.01
25	Butachlor	BLQ	BLQ	0.01*	LC-MS/MS	0.01
26	Cadmium	BLQ	BLQ	0.05#	ICP	0.02
27	Captafol	BLQ	BLQ	0.02*	GC-MS/MS	0.01
28	Captan	BLQ	BLQ	0.02*	GC-MS/MS	0.01
29	Carbaryl	BLQ	BLQ	0.01*	LC-MS/MS	0.01
30	Carbendazim (including Benomyl)		BLQ	0.1*	LC-MS/MS	0.01
30.1	Benomyl	BLQ	BLQ	0.1*	LC-MS/MS	0.01
30.2	Carbendazim	BLQ		0.1*	LC-MS/MS	
31	Carbofuran (sum of Carbofuran and 3-hydroxy-carbofuran expressed as Carbofuran)	BLQ		0.01*	LC-MS/MS	0.01
31.1	Carbofuran	BLQ	BLQ	0.01*	LC-MS/MS	0.01
31.2	3-hydroxy-carbofuran	BLQ		0.01*	LC-MS/MS	
32	Carbosulfan	BLQ	BLQ	0.01*	LC-MS/MS	0.01
33	Carboxin	BLQ	BLQ	0.05*	LC-MS/MS	0.01
34	Cartap hydrochloride	BLQ	BLQ	0.01*	LC-MS/MS	0.01
35	Chlorantraniliprole	BLQ	BLQ	0.4	LC-MS/MS	0.01
36	Chlordane (cis& trans)		BLQ	0.01*	GC-MS/MS	0.01
36.1	cis-chlordane	BLQ	BLQ	0.01*	GC-MS/MS	0.01
36.2	trans-chlordane	BLQ		0.01*	GC-MS/MS	
37	Chlorfenapyr	BLQ	BLQ	0.01*	GC-MS/MS	0.01
38	Chlorfenvinphos	BLQ	BLQ	0.01*	GC-MS/MS	0.01
39	Chlormequat (CCC)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
40	Chlorothalonil	BLQ	BLQ	0.01*	GC-MS/MS	0.01
41	Chlorpyrifos	BLQ	BLQ	0.05*	GC-MS/MS	0.01
42	Chlorpyrifos methyl	BLQ	BLQ	0.05*	GC-MS/MS	0.01
43	Clothianidin	BLQ	BLQ	0.02*	LC-MS/MS	0.01
44	Cyantraniliprole	BLQ	BLQ	0.01*	LC-MS/MS	0.01
45	Cyazofamid	BLQ	BLQ	0.01*	LC-MS/MS	0.01
46	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	BLQ	0.02*		GC-MS/MS	0.01
46.1	Cyfluthrin 1	BLQ	BLQ	0.02*	GC-MS/MS	0.01
46.2	Cyfluthrin 2	BLQ		0.02*	GC-MS/MS	
46.3	Cyfluthrin 3	BLQ		0.02*	GC-MS/MS	

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
46.4	Cyfluthrin 4	BLQ		0.02*	GC-MS/MS	
47	Cymoxanil	BLQ	BLQ	0.05*	LC-MS/MS	0.01
48	Cypermethrin (including other mixtures of constituent isomers sum of isomers)		BLQ	0.05*	GC-MS/MS	0.01
48.1	Cypermethrin 1	BLQ	BLQ	0.05*	GC-MS/MS	0.01
48.2	Cypermethrin 2	BLQ		0.05*	GC-MS/MS	
48.3	Cypermethrin 3	BLQ		0.05*	GC-MS/MS	
48.4	Cypermethrin 4	BLQ		0.05*	GC-MS/MS	
49	Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
50	DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)		BLQ	0.05*	GC-MS/MS	0.01
50.1	p,p'-DDT	BLQ	BLQ	0.05*	GC-MS/MS	0.01
50.2	o,p'-DDT	BLQ		0.05*	GC-MS/MS	
50.3	p,p'-DDE	BLQ		0.05*	GC-MS/MS	
50.4	p,p'-TDE (DDD)	BLQ		0.05*	GC-MS/MS	
51	Deltamethrin	BLQ	BLQ	0.05*	GC-MS/MS	0.01
52	Diafenthiuron	BLQ	BLQ	0.01*	LC-MS/MS	0.01
53	Diazinon	BLQ	BLQ	0.01*	LC-MS/MS	0.01
54	Dichlorvos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
55	Dicofol (sum of p, p' and o,p' isomers)	BLQ	BLQ	0.02*	GC-MS/MS	0.01
56	Dieldrin (see Aldrin)	BLQ	BLQ	0.01*	GC-MS/MS	0.01
57	Difenoconazole	BLQ	BLQ	0.1	LC-MS/MS	0.01
58	Diflubenzuron	BLQ	BLQ	0.05*	LC-MS/MS	0.01
59	Dimethoate (Including Omethoate)		BLQ	0.02*	LC-MS/MS	0.01
59.1	Dimethoate	BLQ	BLQ	0.02*	LC-MS/MS	0.01
59.2	Omethoate	BLQ		0.02*	LC-MS/MS	
60	Dimethomorph	BLQ	BLQ	0.01*	LC-MS/MS	0.01
61	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) and Meptyldinocap	BLQ	BLQ	0.02*	LC-MS/MS	0.02
62	Dinotefuran	BLQ	BLQ	0.01*	LC-MS/MS	0.01
63	Diquat	BLQ	BLQ	0.05*	LC-MS/MS	0.02
64	Dithianon	BLQ	BLQ	0.01*	LC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
65	Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram collectively estimated as CS2)	BLQ	BLQ	0.05*	GC-MS	0.05
66	Diuron (Diuron including all components containing 3,4-dichloroaniline moiety expressed as 3,4-dichloroaniline)		BLQ	0.01*	LC-MS/MS	0.01
66.1	Diuron	BLQ	BLQ	0.01*	LC-MS/MS	0.01
66.2	3,4-dichloroaniline	BLQ		0.01*	LC-MS/MS	
67	Dodine	BLQ	BLQ	0.05*	LC-MS/MS	0.01
68	Edifenphos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
69	Emamectin Benzoate	BLQ	BLQ	0.01*	LC-MS/MS	0.01
70	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphansulphate expressed as endosulphan)		BLQ	0.05*	GC-MS/MS	0.01
70.1	alpha-Endosulphan	BLQ	BLQ	0.05*	GC-MS/MS	0.01
70.2	beta-Endosulphan	BLQ		0.05*	GC-MS/MS	
70.3	Endosulphan sulphate	BLQ		0.05*	GC-MS/MS	
71	Endrin	BLQ	BLQ	0.01*	GC-MS/MS	0.01
72	Ethephon	BLQ	BLQ	0.05*	LC-MS/MS	0.05
73	Ethion	BLQ	BLQ	0.01*	LC-MS/MS	0.01
74	Ethofenprox (Etofenprox)	BLQ	BLQ	1	GC-MS/MS	0.01
75	Etrifos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
76	Famoxadone	BLQ	BLQ	0.01*	LC-MS/MS	0.01
77	Fenamidone	BLQ	BLQ	0.02*	LC-MS/MS	0.01
78	Fenarimol	BLQ	BLQ	0.02*	LC-MS/MS	0.01
79	Fenazaquin	BLQ	BLQ	0.01*	LC-MS/MS	0.01
80	Fenitrothion	BLQ	BLQ	0.01*	GC-MS/MS	0.01
81	Fenobucarb	BLQ	BLQ	0.01*	LC-MS/MS	0.01
82	Fenpropathrin	BLQ	BLQ	0.01*	GC-MS/MS	0.01
83	Fenpyroximate	BLQ	BLQ	0.05*	LC-MS/MS	0.01
84	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)		BLQ	0.01*	LC-MS/MS	0.01
84.1	Fenthion	BLQ	BLQ	0.01*	LC-MS/MS	0.01
84.2	Fenthion-sulfone	BLQ		0.01*	LC-MS/MS	
84.3	Fenthion-sulphoxide	BLQ		0.01*	LC-MS/MS	

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
85	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)	BLQ	BLQ	0.02*	GC-MS/MS	0.01
86	Fenvalerate and Esfenvalerate (Sum of RS & SR isomers) (F)	BLQ	BLQ	0.02*	GC-MS/MS	0.01
87	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)		BLQ	0.005*	GC-MS/MS or LC-MS/MS	0.005
87.1	Fipronil	BLQ	BLQ	0.005*	GC-MS/MS or LC-MS/MS	0.005
87.2	Fipronil sulfone	BLQ		0.005*	GC-MS/MS or LC-MS/MS	
88	Flonicamid (sum of flonicamid, TNFG and TNFA) (R)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
88.1	Flonicamid	BLQ		0.05*		
88.2	TNFG	BLQ		0.05*		
88.3	TNFA	BLQ		0.05*		
89	Flubendiamide	BLQ	BLQ	0.01*	LC-MS/MS	0.01
90	Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
91	Flufenoxuron	BLQ	BLQ	0.05*	LC-MS/MS	0.01
92	Flufenzine	BLQ	BLQ	0.02*	LC-MS/MS	0.01
93	Fluopicolide	BLQ	BLQ	0.01*	LC-MS/MS	0.01
94	Flusilazole	BLQ	BLQ	0.01*	LC-MS/MS	0.01
95	Forchlorfenuron (CPPU)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
96	Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)	BLQ	BLQ	75	LC-MS/MS	0.1
97	Gibberellic acid	BLQ	BLQ	0.01*	LC-MS/MS	0.01
98	Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)		BLQ	0.1*	LC-MS/MS	0.05
98.1	Glufosinate-ammonium	BLQ	BLQ	0.1*	LC-MS/MS	
98.2	MPP	BLQ		0.1*	LC-MS/MS	
98.3	NAG	BLQ		0.1*	LC-MS/MS	
99	Glyphosate	BLQ	BLQ	0.1*	LC-MS/MS	0.05
100	HCH (sum of isomers, except the		BLQ	0.01*	GC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
	<i>gamma</i> isomer)					
100.1	alpha-HCH	BLQ	BLQ	0.01*	GC-MS/MS	0.01
100.2	beta-HCH	BLQ		0.01*	GC-MS/MS	
100.3	delta-HCH	BLQ		0.01*	GC-MS/MS	
101	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)		BLQ	0.01*	GC-MS/MS	0.01
101.1	Heptachlor	BLQ	BLQ	0.01*	GC-MS/MS	0.01
101.2	Heptachlor epoxide	BLQ		0.01*	GC-MS/MS	
102	Hexaconazole	BLQ	BLQ	0.01*	LC-MS/MS	0.01
103	Hexythiazox	BLQ	BLQ	0.5	LC-MS/MS	0.01
104	Homobrassinolide	BLQ	BLQ	0.01*	LC-MS/MS	0.01
105	Imidacloprid	BLQ	BLQ	1	LC-MS/MS	0.01
106	Indoxacarb (sum of R and S isomers)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
107	Iodosulfuron-methyl (iodosulfuron-methyl including salts, expressed as iodosulfuron-methyl)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
108	Iprobenphos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
109	Iprodione	BLQ	BLQ	0.02*	GC-MS/MS	0.01
110	Iprovalicarb	BLQ	BLQ	0.01*	LC-MS/MS	0.01
111	Isoprothiolane	BLQ	BLQ	0.01*	LC-MS/MS	0.01
112	Isoproturon	BLQ	BLQ	0.01*	LC-MS/MS	0.01
113	Kresoxim methyl	BLQ	BLQ	0.05*	LC-MS/MS	0.01
114	Lambda-cyhalothrin	BLQ	BLQ	0.02*	GC-MS/MS	0.01
115	Lead	BLQ	BLQ	0.10#	ICP	0.05
116	Lindane (<i>gamma</i> -HCH)	BLQ	BLQ	0.01*	GC-MS/MS	0.01
117	Linuron	BLQ	BLQ	0.05*	LC-MS/MS	0.02
118	Lufenuron	BLQ	BLQ	0.02*	LC-MS/MS	0.02
119	Malathion (sum of malathion and malaaxon expressed as malathion)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
119.1	Malathion	BLQ	BLQ	0.02*	LC-MS/MS	0.01
119.2	Malaaxon	BLQ	BLQ	0.02*	LC-MS/MS	0.01
120	Mandipropamid	BLQ	BLQ	0.01*	LC-MS/MS	0.01
121	Mepiquat	BLQ	BLQ	0.05*	LC-MS/MS	0.05
122	Metalaxyl&Metalaxyl-M	BLQ	BLQ	0.05*	LC-MS/MS	0.01
123	Methamidophos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
124	Methomyl and Thiodicarb (sum of methomyl and	BLQ	BLQ	0.02*	LC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
	thiodicarb expressed as methomyl)					
124.1	Methomyl	BLQ	BLQ	0.02*	LC-MS/MS	0.01
124.2	Thiodicarb	BLQ	BLQ	0.02*	LC-MS/MS	0.01
125	Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))	BLQ	BLQ	0.05*	LC-MS/MS	0.01
126	Metribuzin	BLQ	BLQ	0.10*	LC-MS/MS	0.01
127	Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin)	BLQ	BLQ	0.02*	LC-MS/MS	0.02
127.1	Milbemycin A3	BLQ	BLQ	0.02*	LC-MS/MS	
127.2	Milbemycin A4	BLQ	BLQ	0.02*	LC-MS/MS	
128	Monocrotophos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
129	Myclobutanil	BLQ	BLQ	0.02*	LC-MS/MS	0.01
130	Novaluron	BLQ	BLQ	0.01*	LC-MS/MS	0.01
131	Omethoate (refer to Dimethoate)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
132	Oxadiazon	BLQ	BLQ	0.05*	LC-MS/MS	0.01
133	Oxycarboxin	BLQ	BLQ	0.01*	LC-MS/MS	0.01
134	Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
134.1	Oxydemeton- methyl	BLQ	BLQ	0.01*	LC-MS/MS	0.01
134.2	Demeton-S-methylsulfone	BLQ	BLQ	0.01*	LC-MS/MS	0.01
135	Oxyfluorfen	BLQ	BLQ	0.05*	GC-MS/MS	0.01
136	Paclbutrazol	BLQ	BLQ	0.5	LC-MS/MS	0.01
137	Paraquat	BLQ	BLQ	0.02*	LC-MS/MS	0.02
138	Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl)	BLQ	BLQ	0.01*	GC-MS/MS	0.01
138.1	Parathion methyl	BLQ	BLQ	0.01*	GC-MS/MS	
138.2	Paraoxon methyl	BLQ	BLQ	0.01*	GC-MS/MS	
139	Parathion ethyl	BLQ	BLQ	0.05*	GC-MS/MS	0.01
140	Penconazole	BLQ	BLQ	0.05*	LC-MS/MS	0.01
141	Pencycuron	BLQ	BLQ	0.05*	LC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
142	Pendimethalin	BLQ	BLQ	0.05*	LC-MS/MS	0.01
143	Permethrin (sum of isomers)	BLQ	BLQ	0.05*	GC-MS/MS	0.01
143.1	cis-Permethrin		BLQ	0.05*	GC-MS/MS	
143.2	trans-Permethrin	BLQ	BLQ	0.05*	GC-MS/MS	0.01
144	Phenthoate	BLQ		0.01*	LC-MS/MS	0.01
145	Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	BLQ	BLQ	0.01*	GC-MS/MS or LC-MS/MS	0.01
145.1	Phorate	BLQ	BLQ	0.01*	GC-MS/MS or LC-MS/MS	0.01
145.2	Phorate-sulfone	BLQ	BLQ	0.01*		
145.3	Phorate-sulfoxide	BLQ		0.01*		
146	Phosalone	BLQ	BLQ	0.01*	LC-MS/MS	0.01
147	Phosphamidon	BLQ	BLQ	0.01*	LC-MS/MS	0.01
148	Pirimiphos-methyl	BLQ	BLQ	0.05*	LC-MS/MS	0.01
149	Profenophos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
150	Propamocarb (sum of propamocarb and its salt expressed as propamocarb)	BLQ	BLQ	0.01*	LC-MS/MS	0.01
151	Propanil	BLQ	BLQ	0.01*	GC-MS/MS	0.01
152	Propargite	BLQ	BLQ	0.01*	LC-MS/MS	0.01
153	Propetamphos	BLQ	BLQ	0.01*	GC-MS/MS	0.01
154	Propiconazole	BLQ	BLQ	0.05*	LC-MS/MS	0.01
155	Propoxur	BLQ	BLQ	0.05*	LC-MS/MS	0.01
156	Pyraclostrobin	BLQ	BLQ	0.02*	LC-MS/MS	0.01
157	Pyridaben	BLQ	BLQ	0.5	LC-MS/MS	0.01
158	Pyriproxyfen	BLQ	BLQ	0.05*	GC-MS/MS	0.01
159	Quinalphos	BLQ	BLQ	0.05*	LC-MS/MS	0.01
160	Simazine	BLQ	BLQ	0.01*	LC-MS/MS	0.01
161	Spinosad (sum of Spinosyn A+D)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
161.1	Spinosyn A	BLQ		0.02*	LC-MS/MS	
161.2	Spinosyn D	BLQ		0.02*	LC-MS/MS	
162	Spirodiclofen	BLQ	BLQ	0.02*	LC-MS/MS	0.01
163	Spiromesifen	BLQ	BLQ	0.02*	LC-MS/MS	0.01
164	Streptomycin	BLQ	BLQ	0.01*	LC-MS/MS	0.01
165	<i>tau</i> - Flualinate	BLQ	BLQ	0.01*	GC-MS/MS	0.01

Sr. No.	Name of Chemicals/Pesticides detected	Residue Content(mg/kg)		Harmonized EU-MRL (mg/kg)	Equipment used for analysis	Limit of Quantification (LOQ) (mg/kg)
		Individual	Sum			
166	Tebuconazole	BLQ	BLQ	0.02*	LC-MS/MS	0.01
167	Temephos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
168	Tetraconazole	BLQ	BLQ	0.02*	LC-MS/MS	0.01
169	Tetracycline	BLQ	BLQ	0.01*	LC-MS/MS	0.01
170	Thiacloprid	BLQ	BLQ	0.02*	LC-MS/MS	0.01
171	Thiamethoxam (sum of thiamethoxam and clothianidin expressed as thiamethoxam)	BLQ	BLQ	0.05*	LC-MS/MS	0.01
172	Thiobencarb	BLQ	BLQ	0.01*	LC-MS/MS	0.01
173	Thiodicarb (see Methomyl)	BLQ	BLQ	0.02*	LC-MS/MS	0.01
174	Thiometon	BLQ	BLQ	0.01*	LC-MS/MS	0.01
175	Thiophanate-methyl	BLQ	BLQ	0.10*	LC-MS/MS	0.01
176	Transfluthrin	BLQ	BLQ	0.01*	GC-MS/MS	0.01
177	Triadimefon (sum of triadimefon and triadimenol)	BLQ	BLQ	0.1*	LC-MS/MS	0.01
177.1	Triadimefon	BLQ	BLQ	0.1*	LC-MS/MS	
177.2	Triadimenol	BLQ	BLQ			
178	Triazophos	BLQ	BLQ	0.01*	LC-MS/MS	0.01
179	Trichlorfon	BLQ	BLQ	0.01*	LC-MS/MS	0.01
180	Tricyclazole	BLQ	BLQ	0.05*	LC-MS/MS	0.01
181	Tridemorph	BLQ	BLQ	0.01*	LC-MS/MS	0.01
182	Trifloxystrobin	BLQ	BLQ	0.02*	LC-MS/MS	0.01
183	Trifluralin	BLQ	BLQ	0.01*	GC-MS/MS	0.01
184	Uracil	BLQ	BLQ	1.00†	LC-MS/MS	1

* EU-MRL set at LOQ (mg/kg) as per

http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=substance.selection

† These are natural products. EU-MRL does not exist for these chemicals. Hence, their MRL is set at the LOQ of the method developed and validated at the National Referral Laboratory of the NRC for Grapes. #Reference: Commission Regulation (EC) No 1881/2006 of 19th December 2006.

(F) = Fat soluble

(R) = Residue definition includes metabolites/isomers

Annexure-10 Electronic Document

Certificate of residue analysis (To be issued by the authorized laboratories)

- 1) Name and address of the farmer
- 2) Name and address of the exporter
- 3) Farm/Plot Registration No.
- 4) Location of the farm/plot
- 5) Area of the farm/plot(s) covered by this report
- 6) Total likely production of the farm/plot(s) [in MT] covered by this report
[calculated on the basis of Annexure-3 (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
 - (c) Packing
 - (d) Sample code No.
- 9) Name of the representative of Authorized 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)

Sr. No	Names of chemicals	EU MRL (mg/kg)	Residue content (mg/kg)	Limit of Determination (LOD) (mg/kg)	Method of analysis	Equipment used for analysis
1.	2.	3	4.	5.	6.	7

Certificate

- 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 chemicals mentioned above and the residue content in the sample is as given in Column 4 of the table given above.
- 2) The APEDA recognition of this laboratory is valid as on date.

Result: Sample conforms/does not conform to MRL requirements with respect to the above listed chemicals (strike out whichever is not applicable).

Date:
Place:

Signature of authorized signatory of
Authorized Laboratory alongwith seal

Instructions for grant of C.A. and certificate of Agmark grading for exports of pomegranates

Persons desirous of obtaining Agmark Certification on fruits and vegetables under Agmark 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.

I. 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, authorised packer shall inform the name and address of the printing press from whom he is getting the containers bearing Agmark replica printed.

II. 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 in the prescribed proforma (Annexure-C). The lists of the offices of DMI and the approved laboratories are at Appendix (i) and Appendix (ii), respectively.
2. The C.A. holder will send the Demand Draft towards grading charges to the laboratory payable @ 0.1% of FOB value subject to a minimum of Rs. 200/- per consignment. The FOB value has been fixed at Rs. 93.20 per kg. 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.

3. 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.
4. 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.
5. Approved Chemist of the approved laboratory shall draw sample as per the sampling plan (Annexure- D). He/she will sign on the containers selected for sampling.
6. 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 prescribed proforma (Annexure- E)
7. The Inspecting Officer will stack-seal the consignment after inspection in the cold store. The temperature of the pomegranates in the cold store should be in the range of 5 – 10⁰C and Relative Humidity in the cold store should be in the of range of 90-95%.
8. 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.
9. Designated 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.
10. 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 re-examination by the concerned laboratory to ascertain that the consignment is in sound merchantable condition and that there has been no deterioration in the quality.

Proforma – I

**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,

(Signature of the applicant)

Place:

Designation:

Date:

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. 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.

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

1. Application for grant of C.A 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.

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 facilities for testing of TSS, Sugar-Acid ratio, etc. The typical needs of chemicals, apparatus, etc., are given in Appendix – (iii).
9. Premises should have arrangements for disposal of rejected, rotten, waste of horticulture produce.

Annexure – C

To,
(Name of the approved laboratory)

Subject : Request for grant of Certificate of Agmark Grading (CAG) for consignment of pomegranates for export.

Sir,

1. I/We hold Certificate of Authorization No. _____ valid up to _____ for grading and marking of fruit and vegetables for exports.

2 I/We intend to export pomegranates to _____ (destination). Details of the consignment are as follows :

a) Laboratory test details for pesticide residues.

Name of the Laboratory _____ Farm Registration No. Test Report No. _____

b) Packaging details.

Commodity	No. of Boxes (in each box)	Qty.	Total Qty. (in MTs)	FOB value (in Rs.)
-----------	-------------------------------	------	------------------------	-----------------------

3. I/We intend to get the inspection and grading done through your approved laboratory.

The above mentioned consignment may be inspected at

(a) our approved premises at _____.

OR (b) airport/seaport at _____.

4. Demand Draft for Rs. _____ towards grading charges is sent separately.

(5) I/We, propose to effect export of pomegranates referred to above to _____ (destination) and these have been processed and packed under my supervision in the pack house referred to in item (1) above.

(6) I/We, further certify that the pomegranates referred to above are contained in _____ number of boxes/cartons and that the laboratory analysis report establishes that pomegranates do not contain pesticide residues exceeding the MRLs with respect to the destination.

7. It is requested that the CAG may be issued.

Yours faithfully,

Dated : _____

(_____)
for M/s. _____

Note – To be e-mailed to the approved laboratory and concerned office of DMI.

SAMPLING PLAN

No. of cartons in the lot -----	Minimum No. of cartons to be sampled. -----
Up to 100	5
101 to 300	7
301 to 500	9
501 to 1000	12
1001 and above	1 % of the cartons (Min 15)

List of offices of the Directorate of Marketing & Inspection

MAHARASHTRA

1. MUMBAI : Dy. A.M.A.
Directorate of Marketing &
Inspection, New CGO, Building
IIIrd Floor, New Marine Lines
Mumbai- 400020.
Telephone No. -022- 22036801(Direct), 22032699
Fax No. - 22091103
E-mail - dmiromah@nic.in
2. NASIK : Shri P. Babbanwar,
Marketing Officer
Directorate of Marketing &
Inspection, New Kamal Niwas,
Behind Hotel Vasco Tourist
Nasik Road - 422101
Telephone No. - 0253-2465437
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. - 0233-2670629
Fax No. - No fax
E-mail - dmimh04@nic.in
4. PUNE : -----
Marketing Officer
Directorate of Marketing &
Inspection, Graders Training
Centre, Beej Bhavan, Market Yard,
Pune-411007.
Telephone No.- 020-24268598
Fax No. - No fax
E-mail - dmimh07@nic.in

ANDHRA PRADESH

1. HYDERABAD : Dr. R. R. Karpate
Dy. Agricultural Marketing Adviser
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. Govinda Reddy

Asstt. Agricultural Marketing Adviser
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

Laboratories approved by DMI for the grading and marking of fruits and vegetables for export

Sl. No.	Name of the laboratory
01	Pesticide Residue Analysis Laboratory National Horticultural Researches and Development Foundation (NHRDF), P.B. No. 61, Kanada Batata Bhavan, 2954-E, New Mumbai Agra Road, Nasik – 422 011.
02	Reliable Analytical Laboratory Pvt. Ltd. Mankoli Naka, Bhiwandi Thane – 421 302
03	Vimta Labs Ltd., Plot No.5, SP Bio-tech Park, Genome Valley, Shamirpet(M), Hyderabad-500078.
04	SGS India Ltd., 1/509 A, Old Mahabalipuram Road, Opp. Govt. High School, Thoraipakkam, Chennai – 600 085.
05	Shriram Institute for Industrial Research Plot 14 & 15, Sadarmangla Industrial Area, White Field Road, Bangalore – 560 048.
06	Interfield Laboratories, XIII/1208A, Interprint House, Kochi – 682005.
07	Delhi Test House, A-62/3, G.T. Karnal Road, Indl. Area, Opp. Hans Cinema, Azadpur, Delhi – 110033.
08	M/s ARBRO Pharmaceuticals Ltd., 4/9, Kirti Nagar Industrial Area, New Delhi - 110015.
09	M/s.National Collateral Management Services Limited, D.No.4-7-18/6B, Raghavendra Nagar, Nacharam, Hyderabad – 500 076.
10	Geo-Chem Lab Pvt. Ltd., 36, Raja Industrial Estate, 1 st Floor, Purushottam Kheraj Marg, Mulund (West), Mumbai – 400 080.
11	Pesticide Residue Testing Laboratory Krishibhavan, Shivajinagar, Pune – 411005
12	Microchem Laboratory Pvt. Ltd., Microchem House, A-513, TTC Industrial Area MIDC, Mahape Navi Mumbai - 400701
13	M/S TUV India Private Ltd. 814, Demech House, 2 nd Floor, Law College Road, Pune – 411004

Chemicals, apparatus etc. required for evaluating Aril colour in pomegranates

1. To obtain juice from pomegranates	(i) Muslin cloth. (ii) Convenient receptacle (iii) Suitable juice press.
2. Determination of the Total Soluble Solids	(i) A calibrated refractometer or A Brix hydrometer of suitable range, calibrated in tenths of a percentage and standardized at 20 ⁰ C. (ii) Thermometer of 0 ⁰ to 50 ⁰ C.
3. Determination of acid content	(i) 20 ml pipette (ii) 50 ml burette (iii) 250 ml conical flask (iv) 250 ml beaker (v) Suitable bottles with labels to store sodium hydroxide, sulphuric acid, phenolphthalein, sodium carbonate, distilled water, etc. (vi) Sodium hydroxide, A.R. (250 gms) for making 0.1333 N solution. (vii) Sulfuric acid - sp. gr. 1.84 - A.R. 98% pure (500 ml) for making 0.1333 N solution. (viii) Phenolphthalein in ethyl alcohol, 0.4% (minimum size pack). (ix) Sodium carbonate 0.1 N (1 litre standard solution). (x) Distilled water.

MINISTRY OF AGRICULTURE
(Department of Agriculture and Co-operation)
New Delhi, the 14th June, 2004

G.S.R 220. – Whereas the draft of the Fruits and Vegetables Grading and Marking Rules, 2003 were published as required by Section 3 of the Agricultural Produce (Grading and Marking) Act, 1937 (1 of 1937) at pages 2065 – 2132 of the Gazette of India, Part II, Section 3, Sub section (i) dated 20.9.03 vide GSR 335, dated 3rd September, 2003 for inviting objections and suggestions from all persons likely to be affected thereby ;

And whereas copies of the said Gazette were made available to the public on 21st September, 2003 ;

And whereas the objections and suggestions received from the public in respect of the said draft rules have been duly considered by the Central Government ;

Now, therefore, in exercise of the powers conferred by Section 3 of the Agricultural Produce (Grading and Marking) Act, 1937 (1 of 1937), and in super session, of (1) the Pomegranates Grading and Marking Rules, 1937, (2) the Plums Grading and Marking Rules, 1938, (3) the Onion Grading and Marking Rules, 1964, (4) the Banana Grading and Marking Rules, 1980, (5) the Mangoes Grading and Marking Rules, 1981, (6) the Pineapple Grading and Marking Rules, 1982, (7) the Guavas Grading and Marking Rules, 1996 and (8) the Garlic Grading and Marking Rules, 2002, except as respects things done or omitted to be done before such supersession the Central Government hereby makes the following rules namely :-

RULES

1. Short title, application and commencement:-

- (i) These rules may be called the Fruits and Vegetables Grading and Marking Rules, 2004.
- (ii) They shall apply to commercial varieties of Fruits and Vegetables.
- (iii) They shall come into force from the date of their publication in the Official Gazette.

2. Definitions :-

- (i) “Agricultural Marketing Adviser” means the Agricultural Marketing Adviser to the Government of India ;
- (ii) “Authorised packer” means a person or a body of persons who has been granted a certificate of authorization to grade and mark Fruits and Vegetables in accordance with the grade standards and procedure prescribed under these rules;

- (iii) “Certificate of Authorisation” means a certificate issued under the provisions of the General Grading and Marking Rules, 1988 authorising a person or a body of persons to grade and mark Fruits and Vegetables with the grade designation mark ;
 - (iv) “General Grading and Marking Rules” means the General Grading and Marking Rules, 1988 made under section 3 of the Agricultural Produce (Grading and Marking) Act, 1937 (1 of 1937) ;
 - (v) “Grade designation” means a designation prescribed as indicative of the quality of fruits and vegetables ;
 - (vi) “Grade designation mark” means the “Agmark Insignia” referred to in Rule 3 ;
 - (vii) “Schedule” means a Schedule appended to these Rules.
3. Grade designation mark - The grade designation mark shall consist of “AGMARK insignia” consisting of a design incorporating the certificate of authorization number, the word “AGMARK”, name of commodity and grade designation resembling the design as set out in Schedule – I.
 4. Grade Designation and Quality - The grade designation and quality of Fruits and Vegetables shall be as set out in schedules II to XIX.
 5. Method of Packing:-
 - (i) Fruits and Vegetables shall be packed in such a way as to protect the produce properly.
 - (ii) The materials used inside the package must be new, clean and of a quality such as to avoid causing any external or internal damage to the produce.
 - (iii) The use of materials particularly of paper or stamps bearing trade specifications is permitted provided the printing or labeling has been done with non toxic ink or glue.
 - (iv) Fruits and Vegetables shall be packed in each container in compliance with the Recommended International Code of Practice for Packaging and Transport of Tropical Fresh Fruit and Vegetables (CAC/RCP 44-1995) for export and as per the instructions issued by the Agricultural Marketing Adviser from time to time for domestic market.
 - (v) The containers shall meet the quality, hygiene, ventilation and resistance characteristics to ensure suitable handling, shipping and preserving of the Fruits and Vegetables. Packages must be free of harmful foreign matter and obnoxious smell.
 - (vi) Content of each package or lot must be uniform and contain only Fruits and Vegetables of same origin, variety and grade designation.

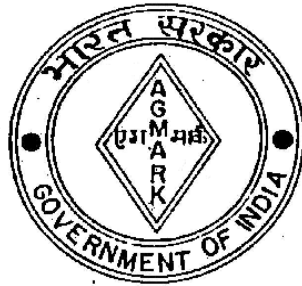
- (vii) The visible part of the contents of the package (if present) must be representative of the entire content.
- (viii) Contents of package may have different fruits and vegetables of different varieties/grades as per buyer requirements with proper labeling.

6. Method of Marking and Labelling:-

- (i) The grade designation mark shall be securely affixed to or printed on each package in a manner approved by the Agricultural Marketing Adviser or an officer authorized by him in this behalf.
- (ii) Following particulars shall be clearly and indelibly marked on each package namely :-
 - (a) Name of the commodity;
 - (b) Variety;
 - (c) Grade designation;
 - (d) Size code (if prescribed);
 - (e) Lot/batch/code number;
 - (f) Country of origin;
 - (g) Net weight/No. of units;
 - (h) Name and address of the packer/exporter;
 - (i) Best before date (where applicable);
 - (j) Storage conditions, if any;
 - (k) Date of packing;
 - (l) Such other particulars as may be specified by the Agricultural Marketing Adviser.
- (iii) The ink used for marking on packages shall be of such quality which may not contaminate the product.
- (iv) The authorized packer may, after obtaining the prior approval of the Agricultural Marketing Adviser, mark his private trade mark or trade brand on the graded packages provided that the same do not indicate quality other than that indicated by the grade designation mark affixed to the graded packages in accordance with these rules.

7. Fruits and Vegetables may be graded and marked as per buyer requirements for exports provided the minimum requirements specified in the relevant Schedule are met.
8. For domestic trade, Fruits and Vegetables shall comply with the residue levels of heavy metals, pesticides, aflatoxin and other food safety parameters as specified in Prevention of Food Adulteration Rules, 1955.
9. Special conditions of certificate of authorization - In addition to the conditions specified under sub-rule (8) of the Rule 3 of the General Grading and Marking Rules, 1988, every authorized packer shall follow all instructions prescribed by Agricultural Marketing Adviser from time to time.

SCHEDULE – I
(See rule 3)
(Design of Agmark Insignia)



NAME OF COMMODITY -----

GRADE -----

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 Requirement	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 - slight defects in colouring;	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 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 qualify 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. - 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.

Annexure-12 - Electronic Document

Specimen format of declaration (To be given by the exporter on their letterhead {scanned copy} to the PSC issuing authority/laboratory)

- 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 - 7 of the Procedures for Export of Pomegranates to the issued by APEDA.
 - a) _____ renewed on _____
 - b) _____ renewed on _____
 - c) _____ renewed on _____ etc.
- 3) The laboratory analysis reports bearing No. _____ dated _____ pertains to the pomegranates 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 laboratory analysis report establishes that the pomegranates do not contain chemicals residues exceeding the MRLs with respect to the destination, referred to in para (4) above, stated in Annexure - 9 of the Procedures for Export of Pomegranates.
- 6) I/We certify that I/we have satisfied my/ourselves that the relevant EU Regulations as on date as regards the product quality and residues of chemicals have been complied with in respect of the pomegranates referred to above.
- 7) I/We certify that I/we have verified the registration records (as given in the format of Annexure- 2) as well as Annexure - 4(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 Procedures for Export of Pomegranates .
- 8) 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 Procedures for Export of Pomegranates.
- 9) 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)

- 10) 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.
- 11) I/We certify that the above information/declaration is true and correct.

Date:
Place:

Signature of Authorized Signatory
of Exporter/Farmer Name and address

Internal Alert Information

(To be issued by NRL)

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

Alert Information

Original

Sub: Detection of _____ agrochemicals beyond MRLs Page:

No__of Pages

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

9. Recommendations by National Referral Laboratory

Date : Signature of the Coordinator/
Place : Authorized Signatory of NRL
along with seal

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

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