



No.PSC/HQ-Coord/44/23/517

Punjab Seed Corporation

4-Lytton Road, Lahore

Ph: 042-99212571-75

Dated: 23/05/2023

Members

- 1 The Secretary Agriculture, Govt. of the Punjab.
- 2 Chairman, Pakistan Agriculture Research Council, Islamabad.
- 3 Food Commissioner, Ministry of Food Security & Research, Government of Pakistan.
- 4 Director General, FSC & RD, Islamabad.
- 5 Director General, Agriculture (Ext. & AR), Lahore.
- 6 Chief Scientist, Agriculture (Research), AARI, Faisalabad.
- 7 General Manager Incharge, Trading Corporation of Pakistan, Lahore.
- 8 Bilal Israel Khan, Grower Rep. Chak No. 150/P, Tehsil Sadiqabad, District R.Y.Khan
- 9 Mr. Masood Akhtar Malik, Grower Rep. Mauza Mallian Kalan Teh & District Sheikhpura.

Observers

1. Cotton Commissioner, Ministry of Food Security & Research, Government of Pakistan.
2. Vice President, Pakistan Central Cotton Committee.
3. Director, (ML&I), Environment Protection Department, Punjab.
4. Director, Cotton Research Institute, Multan.
5. Director, Central Cotton Research Institute, Multan.
6. Director, Nuclear Institute for Agriculture and Biology, Faisalabad.
7. Director, National Institute for Biotechnology and Genetics Engineering, Faisalabad.
8. Secretary APTMA, 97-A, Aziz Avenue, Canal Bank, Gulberg, Lahore.
9. Secretary, KCA, the Cotton Exchange, II-Chandigarh Road, Karachi.
10. Chairman, Pakistan Cotton Ginners Association, PCGA House, MDA, Road Multan.

Subject: MINUTES OF 56TH MEETING OF PUNJAB SEED COUNCIL HELD ON 24.03.2023 AT AUDITORIUM OF AGRICULTURE HOUSE, LAHORE

I am directed to refer to the subject cited above and to enclose a copy of minutes of 56th meeting of the Punjab Seed Council held on 24.03.2023 under chairmanship of Mr. S.M. Tanveer, Minister for Industries, Commerce, Investment & Skills Development Department, Punjab, for your information, record and further necessary action if any.

Arz 23/05/23
Assistant Director Coord

A copy is forwarded with the request to attend the meeting on said date & time:

- 1 Director General (Pak-EPA), Government of Pakistan, Pakistan Environment Protection Agency, Ministry of Climate Change, Plot No. 6, H -8/2, Islamabad
- 2 Director Information, Punjab, Lahore
- 3 Regional Director Punjab, FSC&RD, Lahore.
- 4 Director Farms, PSC Khanewal.
- 5 Director CCRI, Multan.
- 6 Director NIAB, Faisalabad.
- 7 Director NIBGE, Faisalabad.

DA (R)	
DDR	
DD (A&A)	
ARO (Tech)	
AD (Admin)	
AD (Acott)	
AD (Planning)	✓
AD (Audit)	
IGT	
25 MAY 2023	
Diary No... 5365	
CSA (R)	

Mr. Arz

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- 8 Chief Scientist, Mango Research Institute, Multan.
- 9 Chief Scientist, Citrus Research Institute, Sargodha.
- 10 Principal Scientist, (Guar) Agriculture Research Station, Bahawalpur.
- 11 Chief Scientist, Barani Agriculture Research Institute, Chakwal.
- 12 Chief Scientist, Vegetable Research Institute, ARRI, Faisalabad.
- 13 Chief Scientist, Hill Fruit Research Station, Sunny Bank, Murree.
- 14 Chief Scientist, MMRI, Yousafwala (Sahiwal).
- 15 Chief Scientist, Pulses Research Institute, AARI, Faisalabad.
- 16 Chief Scientist, Oilseeds Research Institute, AARI, Faisalabad.
- 17 Chief Scientist, Horticulture Research Institute, AARI, Faisalabad.
- 18 Chief Scientist, Fodder Research Institute, Sargodha.
- 19 Principal Scientist, Potato Research Institute, Sahiwal.
- 20 Principal Scientists, Horticulture Research Station, Bahawalpur.
- 21 Principal Scientist, Regional Agriculture Research Institute, Bahawalpur.
- 22 Principal Scientist, Arid Zone Research Institute, Bhakkar.
- 23 Senior Scientist, Fodder Research Sub-Station, AARI, Faisalabad.
- 24 Cotton Research Station, AARI, Faisalabad.
- 25 Program Leader, Oilseed Research Program, NARC, Islamabad.
- 26 Principal Scientist, Groundnut Research Station, Attock.
- 27 Dr. Iftikhar Ahmad, Associate Professor, University of Agri. Faisalabad and IHS, UAF.
- 28 Dr. Irfan Afzal, Associate Professor, Department of Agronomy, University of Agriculture Faisalabad.
- 29 Dr. Amar Shakeel, Associate Professor, Department Plant Breeding & Genetics, UAF, Faisalabad.
- 30 M/s Guard Agriculture Service, Lahore.
- 31 M/s General Seed Corporation, Depalpur.
- 32 M/s Saim Seeds Services Khanewal.
- 33 M/s Imperial Crop Sciences, Tara, Group, Multan.
- 34 M/s Suncrop, Multan.
- 35 M/s Fatima Sugar Mills Ltd, Kot Addu, Muzaffargarh.
- 36 M/s Four Brother, Multan.
- 37 M/s PEPSICO International Pvt Ltd, Lahore.
- 38 Breeder/Botanist concerned of candidate variety.
- 39 Company concerned.


23/05/23
Assistant Director Coord

CC: For information

1. PS to the Minister for Agriculture, Punjab, Lahore/ Chairman Punjab Seed Council.
2. PS to Managing Director, PSC Lahore.

No. 16279-95/Plan./S-28 PSC

Dated Faisalabad, the 26-05-2023

Copy is forwarded to the: -

1. The Chief Scientist, Agri. Biotechnology Research Institute, Faisalabad.
2. The Chief Scientist, Agronomic Research Institute, Faisalabad.
3. The Chief Scientist, Cotton Research Institute, Multan.
4. The Chief Scientist, Citrus Research Institute, Sargodha.
5. The Chief Scientist, Fodder Research Institute, Sargodha.
6. The Chief Scientist, Horticultural Research Institute, Faisalabad.
7. The Chief Scientist, Oilseeds Research Institute, Faisalabad.
8. The Chief Scientist, Pulses Research Institute, Faisalabad.
9. The Chief Scientist, Wheat Research Institute, Faisalabad.
10. The Chief Scientist, Arid Zone Research Institute, Bhakkar.
11. The Chief Scientist, Barani Agri. Research Institute, Chakwal.
12. The Principal Scientist, Rice Research Institute, Kala Shah Kaku.
13. The Principal Scientist, Vegetables Research Institute, Faisalabad.
14. The Principal Scientist, Maize & Millets Research Institute, Sahiwal.
15. The Principal Scientist, Horticulture, Mango Research Institute, Multan.
16. The Principal Scientist, Potato Research Institute, Sahiwal.
17. The Principal Scientist, Regional Agri. Research Institute Bahawalpur.

for information and further necessary action. They are requested to send the final version of proposal approved in the 56th meeting of PSC within a week time.


for CHIEF SCIENTIST AGRI. RESEARCH



Subject: MINUTES OF THE 56TH MEETING OF THE PUNJAB SEED COUNCIL HELD ON 24.03.2023

The 56th Meeting of the Punjab Seed Council was held on Friday 24th March, 2023 in the Auditorium of Agriculture House, 21-Davis Road, Lahore under the Chairmanship of Mr. S. M. Tanveer, Honorable Minister for Industries, Commerce & Investment, Punjab. List of the Members, Observers, Participants and Crop Breeders, who attended the meeting, is at **Annexure "A"**.

2. Meeting started with recitation of the Holy Quran. Managing Director PSC/ Secretary Punjab Seed Council apprised the house that 85 new strains / candidate varieties of different crops, developed by Public & Private Sector, have been recommended in 83rd and 84th meeting of the Expert Sub-Committee of Punjab Seed Council, held on 22-08-2022 and 22-03-2023 respectively at AARI, Faisalabad. These strains and candidate varieties would be presented by the respective breeders for consideration by the Council.

3. MD PSC / Secretary, Punjab Seed Council further briefed the Chair about the main points of working paper of individual agenda items. With the permission of the Chair, the proceedings of the Council commenced.

AGENDA ITEM-1

CONFIRMATION AND IMPLEMENTATION OF MINUTES OF 55TH COUNCIL MEETING HELD ON 20.09.2021

Working Paper/Detail	Decision of 56th Meeting of Punjab Seed Council
The Council was informed that the Minutes of 55 th meeting of Council, held on 20/09/2021 and duly approved by the Chairman, Punjab Seed Council were circulated to all concerned for confirmation and implementation. No observation/ objection about non-conformity with contents of the said minutes have been received from members/experts/Breeders or Observers. Hence the subject minutes may be confirmed.	Unanimous Support & Confirmed

AGENDA ITEM-2

RECONSIDERATION OF FIBER QUALITY STANDARDS OF COTTON VARIETIES

Working Paper/Detail	Decision of 56th Meeting of Council
After deliberations in 55 th meeting of the Council, the committee that was constituted earlier, was reconstituted as follows to deliberate upon the issue and to submit its report for consideration by the Council. D.G Agri. Research AARI, Faisalabad. D.G, FSC&RD Islamabad. D.G, Agriculture (Ext.& AR), Punjab	Unanimous support of APTMA and research during the meeting, the Council decided to revise the standard of staple length from 28 mm to 27 mm with

Dy Chief Scientist/Group Leader Cotton, NIAB ,Faisalabad **Member**
 Director, Cotton Research Institute, Multan. **Member**
 Director, Central Cotton Research Institute, Multan. **Member**
 Cotton Breeder/PSO, NIBGE, Faisalabad. **Member**
 Rep. of APTMA, Lahore. **Member**
 Rep. of Pakistan Cotton Ginners, Associate. **Member**
 Rep. of Farming community, Punjab. **Member**

condition that
 candidate line must
 have at least 08%
 higher yield than
 check variety for
 variety approval.

TORs

1. To revisit the exiting staple length (mm) standards of cotton lint.
2. To submit a detailed report comprising.
 - i. Staple length (mm) of high yielding varieties.
 - ii. Staple length (mm) and Quality of Cotton lint imported by APTMA during last 05 Years.
 - iii. Staple length (mm) and Quantity of Cotton lint exported during last 05 years.

The Committee recommended as under:

“Staple length may be reduced from 28.0 mm to 27.0 mm subject to the condition that the candidate variety must have 10% higher yield than that of standard keeping all other standards intact and given premium to growers over 28.0 mm staple length cottons”.

Fiber trait	Existing fiber standard	Proposed fiber standard	Yield (kg/ha)
GOT (%)	Not less than 37.5	Not less than 37.5	10% higher yield than the standard in NCVT
Staple Length (mm)	Not less than 28.0	Not less than 27.0	
Micronaire (µg/inch)	Ranging from 3.8 to 4.9	Ranging from 3.8 to 4.9	
Fiber Strength (tpsi) or g/tex	Not less than 92 or ≥ 25.5	Not less than 92 or ≥ 25.5	
Uniformity Ratio (%)	Not less than 48	Not less than 48	
Fiber Maturity (%)	Not less than 80	Not less than 80	

The case was then again discussed in 83rd meeting of ESC and recommended as under:

“Staple length may be reduced from 28.0 mm to 27.0 mm with condition that variety must have 05% higher yield than that of standard in National Coordinated varietal trial.

During meeting of the Council, Dr. Javed Hassan, Rep. of APTMA informed the house that currently most of the Seed Cotton stock available in market is about 27 mm staple length.

AGENDA ITEM-3**APPROVAL OF KP WHEAT VAREITIES FROM PUNJAB SEED COUNCIL FOR MULTIPLCATION IN PUNJAB**

Working Paper/Detail	Decision of 56 th Meeting of Punjab Seed Council
<p>A request for approval of (05) wheat varieties of Khyber Pakhtunkhwa for seed multiplication in Punjab, was received and discussed in 55th meeting of the council. The worthy chair constituted the following committee of to make recommendations in this regard.</p> <p>i. DG Agri. (Ext) Punjab Lahore Convener ii. Managing Director PSC Lahore Member iii. DG. Agri Res AARI, Faisalabad Member iv. National Wheat Coordinator/Rep Member PARC, Islamabad</p> <p>The committee held meetings with scientists of NARC, KPK and Punjab and the cases were scrutinized by the Technical Experts. The experts recommended three varieties out of five for placement before Experts Sub-Committee of Punjab Seed Council:</p> <p>i. Khaista 2017 ii. Gulzar 2019 iii. Pirsabak 2019</p> <p>Two varieties (Pirsabak-15 & Wadaan-17) were rejected by the committee due to the risk of spread of inoculum. These varieties have a high susceptibility of leaf rust. The ESC in its 83rd meeting endorsed the recommendation of experts and forwarded the case for consideration in Punjab Seed Council.</p>	<p>i. The Council approved the recommendations of Committee to allow three Wheat Varieties namely Khaista 2017, Gulzar 2019 and Pirsabak 2019 for Seeds multiplication in Punjab.</p> <p>ii. A team of Scientists from AARI, Faisalabad and KPK research scientist under NARC will visit 5% seed production areas for recording of disease data.</p> <p>iii. Chief Scientist Wheat AARI, Faisalabad will inform progress after next two crops for satisfaction.</p>



<p>5. Special quality traits will be given allowance after complete satisfaction for all crops i.e. cooking quality, nutrients, value added products, export value storage etc.</p> <p>6. Since, Distinctness, Uniformity and Stability (DUS) and value of cultivation and use are the mandatory requirements for the clearance of the variety. Therefore, spot examination (Adaptive trial-upto minimum half acre) shall be arranged with the support of Provincial government for layout and results in the presence of a dedicated committee on the methodology laid out by Crop Reporting service.</p>	further necessary action.
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AGENDA ITEM-5

Subject: SPECIAL APPROVAL OF COTTON VARIETIES SAIM-32 AND SAIM-102

Working Paper/Detail	Decision of 56 th Meeting of Punjab Seed Council
<p>A reference was received from Mr. Javaid Abdullah, CEO, M/s Saim Seeds Services Khanewal, regarding Special approval of cotton varieties Saim-32 & Saim-102 from the Council.</p> <p>Cotton variety Saim-32 was not recommended in 74th meeting of ESC dated 16.02.2017 due to higher Micronaire value (5.14 ug/inch) than that of the standard (3.8 to 4.9 ug/inch) whereas, Cotton variety Saim-102 was not approved in 55th meeting of the Council dated 20.09.2021 due to less fiber length (27.21 mm) than that of the standard (28.0 mm).</p> <p>The case was discussed in 82nd meeting of ESC dated 31.03.2022 and recommended as under:</p> <ol style="list-style-type: none"> 1. <i>The cotton variety Saim-32 may be recommended for general cultivation by Punjab Seed Council subject to retesting of fibre standards in spot examination during 2022.</i> 2. <i>Staple length may be reduced from 28.0 mm to 27.0 mm with the condition that the variety must have 05% higher yield than that of standard in National Coordinated varietal trial.</i> <p>In the light of ESC decision, Retesting of Fibre standards were done from spot examination 2022. Both varieties were found less in fibre length than standard</p> <p><i>Saim-102 27.21 mm</i> <i>Saim-32 27.33 mm</i></p> <p>Both varieties were again not recommended due to less staple length in 84th meeting of ESC</p>	<p>Owing to reduction of staple length standards from 28 mm to 27 mm at Agenda 2, both varieties were Approved by the Council subject to DNA & NBC Certificate.</p> <p>There shall be no relaxation in other characteristics for cotton approval except that granted for staple length for high yielding varieties (8%) higher than check)</p>



AGENDA ITEM-6

Subject: EXEMPTION OF DNA FINGERPRINTING REPORT OF HORTICULTURAL PLANTS AND MINOR CROPS

Working Paper/Detail	Decision of 56 th Meeting of Punjab Seed Council																				
<p>The submission of DNA fingerprinting for new crop varieties is mandatory for approval by Punjab Seed Council. SOPs for DNA fingerprinting were prepared by the committee constituted under the chairmanship of Chief Executive, Punjab Agricultural Research Board (PARB). As per SOPs, four laboratories (ABRI Faisalabad, NIBGE Faisalabad, CEMB Lahore & NIGAB Islamabad) were authorized to carry out DNA fingerprinting using SSR markers, initially for the period of 02 years. It was decided to shift on sequence-based DNA fingerprinting after capacity development of the Labs/ Institutes.</p> <p>A reference received from Dr. Sajid Ur Rehman, PS, ABRI, stating that ABRI, Faisalabad is receiving requests for DNA fingerprinting of several horticultural and minor crops from various public and private institutes, universities and seed companies. After thorough search of internationally available genome and marker dateable, they were unable to find any genomic sequence information regarding several plants/crops. As the genomes of these lesser known plants /crops have not been yet sequenced, therefore no SSR marker sequence is available for DNA fingerprinting. Although in the absence of specific genomic information, RAPD markers are often used to investigate the diversity of such plants. However, results of RAPD marker are not reproducible and reliable.</p> <p>He proposed that following crops/ horticultural plants for which SSR markers are not available, may be exempted from DNA fingerprinting for varietal approval.</p> <table border="1" data-bbox="251 1173 1169 1526"> <thead> <tr> <th>Sr.#</th> <th>Name of Crop</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Calendula</td></tr> <tr><td>2.</td><td>Phalsa</td></tr> <tr><td>3.</td><td>Jaman</td></tr> <tr><td>4.</td><td>Tulsi</td></tr> <tr><td>5.</td><td>Sisal</td></tr> <tr><td>6.</td><td>Jantar</td></tr> <tr><td>7.</td><td>Napier Grass</td></tr> <tr><td>8.</td><td>Rye</td></tr> <tr><td>9.</td><td>Other crop for which SSR markers are not available</td></tr> </tbody> </table>	Sr.#	Name of Crop	1.	Calendula	2.	Phalsa	3.	Jaman	4.	Tulsi	5.	Sisal	6.	Jantar	7.	Napier Grass	8.	Rye	9.	Other crop for which SSR markers are not available	<p>i. The Council supported the Exemption of minor crops from DNA fingerprinting initially for a period of five years, and referred the agenda to Federal seed committee for Decision.</p> <p>ii. Furthermore a Technical committee was constituted to make recommendation regarding methodology and inclusion of further labs for DNA Fingerprinting. This committee will comprise of Director NIBGE Faisalabad, Director CEMB, Punjab University, Director NIGAB, NARC, Islamabad, Director ABRI, Faisalabad, Mr. Javed Saleem Qureshi, M/s Four Brothers Lahore, and Dr.</p>
Sr.#	Name of Crop																				
1.	Calendula																				
2.	Phalsa																				
3.	Jaman																				
4.	Tulsi																				
5.	Sisal																				
6.	Jantar																				
7.	Napier Grass																				
8.	Rye																				
9.	Other crop for which SSR markers are not available																				
<p>The house is of opinion that methodology of DNA Fingerprinting is laborious and time consuming and other labs which are accredited may be included for DNA fingerprinting of various crop varieties developed by Private or Public Institutes.</p> <p>Furthermore, Secretary Agriculture, Punjab informed the house that DNA Fingerprinting is a legal obligation under federal laws. The case for any relaxation regarding DNA profile shall be submitted to Federal Seed Committee.</p>																					



	Khalid Hameed, Chairman M/s Tara Group, Multan to discuss each case separately for exemption in rules from Federal Government
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AGENDA ITEM-7

Subject: CONSIDERATION OF TWO (02) CITRUS LINES RECOMMENDED IN 81ST MEETING OF EXPERT SUB-COMMITTEE

Working Paper/Detail						Decision of 56 th Meeting of Punjab Seed Council
<p>Two (02) Citrus lines namely (i) Sanguinello and (ii) Kumquat were recommended in 81st meeting of Expert Sub-Committee dated 12.07.2021 but breeder of these lines had withdrawn his candidate lines due to non-availability of 2nd year DUS for presenting in 55th (last meeting) of the Council.</p> <p>After receiving 2nd year DUS report, concerned breeder has requested to consider both following candidate lines in the meeting of Punjab Seed Council:</p>						<p>1. Sanguinello Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.</p> <p>2. Kumquat Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.</p>
Sr. No.	Crop	Name of variety	Breeding Institute/ Agency/Company	Recommendation in 81 st Meeting of Expert Sub - Committee held on 12-07-2021	Remarks/DNA Fingerprinting status	
1	Citrus	Sanguinello (BARI Shan)	BARI, Chakwal	Recommended. These are fruits bearing plants therefore trials at National level were not conducted	Yes	
2	Citrus	Kumquat (C-Quart)	BARI, Chakwal	Recommended. These are fruits bearing plants therefore trials at National level were not conducted	Not Received	

AGENDA ITEM-8

Subject: **PRESENTATION & CONSIDERATION OF THE NEW CANDIDATE
DIFFERENT CROPS VARIETIES/HYBRID**

Sr. No.	Crop	Name of variety	Breeding Institute/ Agency/Company	Recommendation in 83 rd Meeting of ESC Committee held on 22-08-2022	Decision of 56 th Meeting of Punjab Seed Council
1	Rice	NIBGE GSR-7 (NGR-55-3-8)	NIBGE, Faisalabad	Recommended subject to finger printing	Approved
2	Rice	NIBGE GSR-8 (CBG-11)	NIBGE, Faisalabad	Recommended subject to finger printing	Approved
3	Rice	Guard-102 (Long Pak-7)	Guard Agricultural Research & Services (Pvt) Ltd,	Recommended subject to finger printing and DUS	Approved subject to DNA Fingerprinting report
4	Maize Hybrid	YH-5560	MMRI, Sahiwal	Recommended subject to finger printing	Approved
5	Maize Hybrid	G-888	General Seed Corporation, Depalpur	Recommended subject to finger printing	Approved subject to DNA Fingerprinting report
6	Wheat	N-Gandam-7	NIBGE, Faisalabad	Recommended	Being recommended from ESC for Punjab basis and not recommended from VEC due to Rust at some locations, breeder was advised to request VEC for re-examine the crop with respect to Yellow Rust and Leaf Rust at Punjab locations and present case in next seed council.
7	Oats	F-408	Fodder Research Station , Faisalabad	Recommended subject to finger printing	Approved
8	Mungbean	NIAB-PRI MUNG (MPP-15024)	NIAB, Faisalabad	Recommended subject to DNA finger printing	Approved
9	Mash	Potohar Mash (14CM-705)	BARI, Chakwal	Recommended subject to DNA finger printing	Approved subject to DNA Fingerprinting report
10	Chickpea	MFK-22 (BRC-446)	RARI, Bahawalpur	Recommended subject to 2 nd year NUYT result data	Not Approved
11	Chickpea	TG1427 (TG Striker)	Arid Zone Research Institute, Bahawalpur	Recommended	Approved
12	Chickpea (Desi)	BITTAL-2022 (D-16029)	Pulses Research Institute, Faisalabad	Recommended	Approved
13	Chickpea (Kabuli)	Noor-2022 (K-01216)	Pulses Research Institute, Faisalabad	Recommended	Approved
14	Groundnut	Chakwal Gold (13CG003)	Barani Agricultural Research Institute, Chakwal	Recommended	Approved
15	Groundnut	Fakhr-e-Attock (10AK003)	Groundnut Research Station, Attock	Recommended	Approved
16	Castor bean	NIAB-Spineless Caster	NIAB, Faisalabad	Recommended subject to finger printing	Approved subject to DNA Fingerprinting report

17	Castor bean	NIAB-Castor-2023	NIAB, Faisalabad	Recommended subject to finger printing	Approved subject to DNA Fingerprinting report
18	Mustard (Raya)	Cholistani Raya (BRJ-1304)	RARI, Bahawalpur	Recommended	Approved
19	Rapeseeds	Barani Star (16CBN007)	Barani Agriculture Research Institute, Chakwal	Recommended	Approved
20	Sunflower hybrid	ORISUN-741	Oilseeds Research Institute, Faisalabad	Recommended subject to finger printing	Approved
21	Sunflower hybrid	ORISUN-751	Oilseeds Research Institute, Faisalabad	Recommended subject to finger printing	Approved
22	Sesame	Anmol Til (17003)	Oilseed Research Institute, Faisalabad	Recommended subject to finger printing and DUS report of 2 nd year	Approved
23	Guar	BR-2022 (S-5885)	Agriculture Research Station, Bahawalpur	Recommended	Approved
24	Guar	Thal Guara (S-6384)	Agriculture Research Station, Bahawalpur	Recommended	Approved
25	Sorghum (OPV)	YS-18 (YSS-42)	MMRI, Sahiwal	Recommended subject to finger printing	Approved
26	Sorghum	Sargodha Jawar 2022 (1572)	Fodder Research Institute, Sargodha	Recommended Subject to finger printing	Approved
27	Sorghum Hybrid	YSH-134	MMRI, Sahiwal	Recommended The breeder does not want to present to Sorghum hybrid YSH-134 in 56 th meeting of Punjab Seed Council	Withdrawn
28	Berseem	Chenab Barseem (Sandal Barseem)	Fodder Research Sub Station, Faisalabad	Recommended	Approved subject to DNA Fingerprinting report
29	Napier Grass	AARI NAPIER (FNG-1)	Fodder Research Sub Station, Faisalabad	Recommended exempted from finger printing because DNA primers are not available	Approved subject to DNA Fingerprinting report
30	Napier Gras	Sargodha Napier 2022 (SNG-1)	Fodder Research Institute, Sargodha	Recommended, exempted from finger printing because DNA primers are not available	Approved subject to DNA Fingerprinting report
31	Date Palm	Ajwa	Horticulture Research Station, Bahawalpur	Recommended.	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.

32	Date Palm	Ambar	Horticulture Research Station, Bahawalpur	Recommended.	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
33	Date Palm	Barthee	Horticulture Research Station, Bahawalpur	Recommended.	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
34	Date Palm	Khalas	Horticulture Research Station, Bahawalpur	Recommended	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
35	Date Palm	Medjoul	Horticulture Research Station, Bahawalpur	Recommended	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
36	Date Palm	Sugal	Horticulture Research Station, Bahawalpur	Recommended	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights,

					Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
37	Mango	Chenab Gold	Mango Research Institute, Multan	Recommended	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
38	Mango	Azeem Chaunsa	Mango Research Institute, Multan	Recommended	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
39	Citrus	CRI-Mitha (Sweet Lime)	Citrus Research Institute, Sargodha	Recommended	Approved
40	Citrus	CRI Nimbu (Kaghzi Lime)	Citrus Research Institute, Sargodha	Recommended	Approved
41	Pecanut	DMA-2	Hill Fruit Research Station, Murree	Recommended exempted from finger printing because DNA primers are not available	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
42	Olive	Gohar	BARI, Chakwal	Recommended subject to finger printing	Approved & the concerned breeder clarified that this candidate variety is clear from issues related to Intellectual property rights, Plant breeders rights and



					patents. The Chairman (Minister) clearly informed the house that the concerned breeder will be responsible if any issue regarding IPR, PBR, and Patents arises.
43	Phalsa	Punjab-Phalsa-1	Horticulture Research Institute, Faisalabad	Recommended Subject to finger printing	Approved subject to DNA Fingerprinting report
44	Potato	Ijaz-22 (FD 74-38)	Potato Research Institute, Sahiwal	Recommended subject to finger printing	Approved
45	Peas	Barani Matar (18B003)	Barani Agriculture Research Institute, Chakwal	Recommended subject to finger printing	Approved subject to DNA Fingerprinting report
46	Tomato Hybrid	Samar F-1 (LITH-904)	Vegetable Research Institute, Faisalabad	Recommended subject to finger printing	Approved
47	Tomato Hybrid	MARJAN F-1 (LTH-324)	Vegetable Research Institute, Faisalabad	Recommended subject to finger printing	Approved
48	Onion	VRIO-14	Vegetable Research Institute, Faisalabad	Recommended	Withdrawn by Breeder
49	Okra	VRI-OK-1900	Vegetable Research Institute, Faisalabad	Recommended	Withdrawn by Breeder
50	Okra	Okra 3A (P-21)	Department of PBG, University of Agriculture, Faisalabad	Recommended	Approved
51	Flower	Rosa Centifolia UAF	IHS, University of Agriculture, Faisalabad	Recommended subject to finger printing	Approved
52	Chia	Chia-UA	Department of Agronomy, University of Agriculture Faisalabad	Recommended subject to finger printing	Approved subject to DNA Fingerprinting report

It was observed by the Council that it is becoming a practice that a variety which has been rejected by VEC is brought before Punjab Seed Council for consideration and approval. In order to resolve this ex facie anomaly role of VEC & Expert Committee for PSC has to be differentiated and defined as per provisions of Seed Act. A proposal may be submitted to the Federal Government to incorporate the role of Expert Committee in Seed Act to strengthen Seed approval system in Punjab.

AGENDA ITEM-9

Subject: PRESENTATION & CONSIDERATION OF THE NEW CANDIDATE BT. COTTON VARIETIES

Sr. No.	Crop	Name of variety	Breeding Institute /Company	Recommendation in 83 rd Meeting of Expert Sub - Committee held on 22-08-2022	Decision of 56 th Meeting of Punjab Seed Council
1	Bt. Cotton	CIM-343	Central Cotton	Recommended subject	Approved

			Research Institute, Multan	to DNA finger printing	subject to NBC Certificate for commercialization.
2	Bt. Cotton	CYTO-537	Central Cotton Research Institute, Multan	Recommended	Approved subject to NBC Certificate for commercialization.
3	Bt. Cotton	IR -NIBGE-13	NIBGE, Faisalabad	Recommended subject to DNA finger printing	Approved subject to NBC Certificate for commercialization.
4	Bt. Cotton	IR -NIBGE-16	NIBGE, Faisalabad	Recommended subject to DNA finger printing	Approved subject to NBC Certificate for commercialization.

It was observed by the Council that it is becoming a practice that a variety which has been rejected by VEC is brought before Punjab Seed Council for consideration and approval. In order to resolve this ex facie anomaly role of VEC & Expert Committee for PSC has to be differentiated and defined as per provisions of Seed Act. A proposal may be submitted to the Federal Government to incorporate the role of Expert Committee in Seed Act to strengthen Seed approval system in Punjab.

AGENDA ITEM-10

Subject: REQUEST FOR APPROVAL OF COTTON VARIETIES IN SPECIFIC AREAS, OTHERWISE REJECTED IN 55TH MEETING OF THE COUNCIL

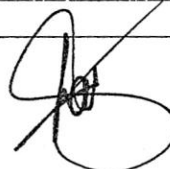
Working Paper/Detail						Decision of 56 th Meeting of Punjab Seed Council
The following two varieties were not approved in 55 th meeting of the Council due to less yield than check variety in Punjab:						Not Approved
Sr. No.	Corp	Variety	Breeding Institute	ESC recommendation in its 81 st meeting	Decision of the 55 th meeting of Council	
1	Cotton	Cyto -533	CCRI, Multan	Recommend for Bahawalpur and Sahiwal Division only	Not Approved due to less yield than check in Punjab	
2	Cotton	IR-NIBGE - 14	NIBGE, Faisalabad	Recommend for Bahawalpur Division only	Not Approved due to less yield than check in Punjab	
<p>The Breeders of above mentioned two varieties requested to consider their variety for approval in specific areas where it has performed better than check variety.</p> <p>They also added that Cotton varieties respond according to their adaptability in various climatic zones. Some varieties perform best in some location while produce less yield in other locations. They have requested to</p>						Not Approved

revisit the decision of these two varieties.

AGENDA ITEM-11

Subject: REQUEST FOR CONSIDERATION OF VEC APPROVED MAIZE HYBRID IN PUNJAB SEED COUNCIL

Working Paper/Detail	Decision of 56th Meeting of Punjab Seed Council
<p>Dr. Muhammad Aslam, Associate Professor/ Breeder, University of Agriculture, Faisalabad has requested that Department of Plant Breeding and Genetics, University of Agriculture, Faisalabad has developed a bio-fortified Maize hybrid (three-way cross) suitable for spring sowing in all Maize growing areas.</p> <p>The said hybrid with the name of PB-ProA-2017 has been recommended by VEC in its 10th meeting held on December 13, 2021.</p> <p>Spot examination and recommendation from ESC for this hybrid is not done yet. He has requested to present his following Maize hybrid in the 56th meeting of the Council for consideration.</p>	<p>Agenda was referred to Expert sub-committee (ESC) to make recommendation for next Punjab Seed Council meeting.</p> <p>Furth ermore, Role of VEC & Expert Committee has to be decided at</p>



Crop Name	Zea mays L.	the level of Federal Seed Committee (Apex body of Act) under MNFS&R.
Hybrid Name	PB-ProA-2017	
Hybrid type	Three ways cross	
Breeding Institute	University of Agriculture, Faisalabad	
Special character	Provitamin A bio fortified	
ESC recommendation	Not presented	
VEC Recommendation	10 th VEC meeting held on December 13, 2021	

As mentioned in the previous agenda items, role of VEC and Expert Sub- Committee has to be differentiated and decided at the level of Federal seed Committee (Apex body of Act) under MNFS&R. Federal Government and Provincial Governments should work in close co-ordination to allow only best of the best varieties to be approved as this is a major challenge to break stagnation in yield besides approvals of hundreds of varieties every year.

AGENDA ITEM-12

Subject: REQUEST FOR CONSIDERATION OF VEC APPROVED WHEAT VARIETIES IN PUNJAB SEED COUNCIL

Working Paper/Detail		Decision of 56 th Meeting of Punjab Seed Council															
<p>Two Wheat varieties of different institutes were recommended by the Variety Evaluation Committee (VEC) meeting held at PARC, Islamabad on dated 13.12.2022.</p> <p>Expert sub-committee in its 83rd meeting Not Recommended these two lines due to DUS rejection.</p> <p>Following the request of Breeders, FSC&RD have commented that ESC may recommend these varieties subject to confirmation by FSC&RD after 3rd year DUS trials.</p> <p>They have requested to present their following Wheat lines in the 56th meeting of the Council for consideration.</p> <table border="1"> <tr> <td>Crop Name</td> <td>Wheat</td> <td>Wheat</td> </tr> <tr> <td>Variety Name</td> <td>TWS 15159</td> <td>NARC-533</td> </tr> <tr> <td>Name of Institute</td> <td>Arid Zone Research Institute, Bhakkar</td> <td>Wheat Program NARC, Islamabad</td> </tr> <tr> <td>ESC recommendation</td> <td>Not Recommended due to DUS rejection.</td> <td>Not Recommended due to DUS rejection.</td> </tr> <tr> <td>VEC Recommendation</td> <td>Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report from FSC&RD in 3rd</td> <td>Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report</td> </tr> </table>		Crop Name	Wheat	Wheat	Variety Name	TWS 15159	NARC-533	Name of Institute	Arid Zone Research Institute, Bhakkar	Wheat Program NARC, Islamabad	ESC recommendation	Not Recommended due to DUS rejection.	Not Recommended due to DUS rejection.	VEC Recommendation	Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report from FSC&RD in 3 rd	Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report	<p>Agenda was referred to Expert sub-committee (ESC) to make recommendation for next Punjab Seed Council meeting. Role of VEC & Expert Committee has to be decided at the level of Federal Seed Committee (Apex body of Act) under MNFS&R.</p>
Crop Name	Wheat	Wheat															
Variety Name	TWS 15159	NARC-533															
Name of Institute	Arid Zone Research Institute, Bhakkar	Wheat Program NARC, Islamabad															
ESC recommendation	Not Recommended due to DUS rejection.	Not Recommended due to DUS rejection.															
VEC Recommendation	Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report from FSC&RD in 3 rd	Provisionally recommended for rainfed area of Punjab subject to clearance of DUS report															

	VEC meeting held on December 13, 2022	from FSC&RD in 3 rd VEC meeting held on December 13, 2022	
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TABLE AGENDA 1

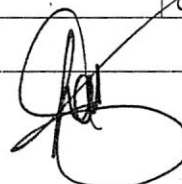
Subject: INCLUSION OF NIAB-512 (COTTON VARIETY) IN THE AGENDA OF THE 56TH MEETING OF THE SEED COUNCIL

Working Paper/Detail	Decision of 56th Meeting of Punjab Seed Council
<p>Background:</p> <p><u>Facts About NIAB-512 for its Approval</u></p> <ul style="list-style-type: none"> ➤ ESC recommended NIAB-512 for approval in its 81st meeting ➤ PSC in its 55th meeting, defer Bt. cotton variety namely "NIAB-512" for commercial cultivation in Punjab for retesting of Bt. Traits ➤ Retesting of Bt Traits of NIAB-512 was conducted by ABRI, AARI and found <i>POSITIVE</i> for <i>CryIAc</i> Protein only ➤ PCR results confirmed the presence of Mon 531 event ➤ <i>CryIAc</i> endotoxin was 4.58 µg/gram 	<p>Approved .. Subject to provision of DNA report & NBC Certificate for commercialization.</p>

TABLE AGENDA 2

Subject: PRESENTATION & CONSIDERATION OF THE NEW CANDIDATE BT. COTTON VARIETIES

Sr. No.	Crop	Name of variety	Breeding Institute /Company	Recommendation in 84th Meeting of Expert Sub - Committee held on 22-03-2023	Decision of 56th Meeting of Punjab Seed Council
1	Bt. Cotton	IR-NIBGE-17	NIBGE, Faisalabad	Recommended subject to NBC Certificate and DNA fingerprinting	Approved Subject to provision of NBC Certificate for commercialization.
2	Bt. Cotton	ICS-386	Imperial Crop Sciences, Tara Group, Multan	Recommended subject to NBC Certificate and DNA fingerprinting	Approved Subject to provision of DNA Fingerprinting report & NBC Certificate for commercialization.



3	Bt. Cotton	FH-938	CRS, Faisalabad	Recommended subject to NBC Certificate	Approved Subject to provision of DNA Fingerprinting report & NBC Certificate for commercialization.
4	Bt. Cotton	DIAMOND2	Suncrop, Multan	Recommended subject to NBC Certificate and DNA fingerprinting	Approved Subject to provision of DNA Fingerprinting report, NBC Certificate for commercialization
5	Bt. Cotton	Ghauri-2	Four Brothers SC, Multan	Data of yield is not for consecutive 2 years	On the recommendation of Chief Scientist Agriculture Research, AARI/Chairman ESC & Regional Director, FSC&RD - Lahore. During the meeting Regional Director FSC&RD proposed under special amendment Rules-2021 (Sub Section 2 amended 2021), Ghauri-2 was Approved Subject to provision of DNA Fingerprinting report & NBC Certificate for commercialization.

TABLE AGENDA-3

Subject: **PRESENTATION & CONSIDERATION OF THE NEW CANDIDATE DIFFERENT CROPS VARIETIES/HYBRID**

Sr. No.	Crop	Name of variety	Breeding Institute/ Agency/Company	Recommendation in 84 th Meeting of Expert Sub - Committee held on 22-03-2023	Decision of 56 th Meeting of Punjab Seed Council
1	Mango	ZA-2022	Horticulture Research Institute, Faisalabad	Recommended subject to provision of DUS results and DNA fingerprinting report	Deferred
2	Coarse Rice	ST-9	NIAB, Faisalabad	Recommended subject to DNA	Approved subject to DNA Fingerprinting

				fingerprinting	report
3	Coarse Rice	RC-195	NIAB, Faisalabad	Recommended subject to DNA fingerprinting	Approved subject to DNA Fingerprinting report
4	Fine Rice	S-39	NIAB, Faisalabad	Recommended subject to DNA fingerprinting	Approved subject to DNA Fingerprinting report
5	Fine Rice	HTT-18	NIAB, Faisalabad	Recommended subject to DNA fingerprinting	Approved subject to DNA Fingerprinting report
6	Groundnut	Fida-22 (13CG002)	Barani Agricultural Research Institute, Chakwal	Recommended	Approved
7	Fine Rice	Guard-101	Guard Agriculture Research & Services (Pvt) Ltd, Lahore	Recommended Subject to DNA Fingerprinting report	Approved
8	Sunflower Hybrid	NARC SUN-2020 (SMH-0927)	Oilseeds Research Programme, NARC, Islamabad	Recommended Subject to DNA Fingerprinting report	Approved subject to DNA Fingerprinting report
9	Coarse Rice	SKC-B-370-5-32	NIBGE, Faisalabad	Recommended Subject to DNA Fingerprinting report	Approved subject to DNA Fingerprinting report
10	Rice (Basmati)	PK10436	Rice Research Institute, Kala Shah Kaku	Recommended Subject to DUS & DNA Fingerprinting report	Approved
11	Rice (Basmati)	PK10029	Rice Research Institute, Kala Shah Kaku	Recommended Subject to DUS & DNA Fingerprinting report	Approved
12	Cowpea	CP-162	Fodder Research Institute, Sargodha	Recommended Subject to DUS & DNA Fingerprinting report	Approved subject to DNA Fingerprinting report
13	Sugarcane	YT-236-FG	Fatima Sugar Mills Ltd, Kot Addu, Muzaffargarh	Recommended	Approved
14	Rapeseed	RBN-18021 (TM Canola)	Oilseed Research Institute, Faisalabad	Recommended Subject to DUS & DNA Fingerprinting report	Approved
15	Ginger	VGC-19005	Vegetable Research Institute, AARI, Faisalabad	Recommended Subject to DNA Fingerprinting report	Approved subject to DNA Fingerprinting report
16	Mustard	Cazola (FBS-711)	Four Brothers, Multan	Recommended Subject to DUS & DNA Fingerprinting	Approved subject to DNA Fingerprinting report



				report	
17	Potato	FL-2215	PEPSICO Int. Pvt Ltd, Lahore	Recommended Subject to DUS & DNA Fingerprinting report	Approved subject to Provision of DNA Fingerprinting report
18	Potato	FL-2027	PEPSICO Int. Pvt Ltd, Lahore	Recommended Subject to DUS & DNA Fingerprinting report	Approved subject to Provision of DNA Fingerprinting report
19	Potato	FL-2108	PEPSICO Int. Pvt Ltd, Lahore	Recommended Subject to DUS & DNA Fingerprinting report	Approved subject to Provision of DNA Fingerprinting report
20	Wheat	Shiraz-23 (18C117)	BARI, Chakwal	Recommended subject to DUS	Deferred due to DUS for next meeting

PSC may devise a system wherein a five-year review may be conducted of the approved varieties keeping in view their status of seed production and adoption subsequent to approval. The same may be applicable to the fruit plants as well.

5. The chair constituted the following Technical committee to make recommendations, according to TORs, for seed council.

- | | |
|---------------------------------------------------------------------------------------|--------|
| 1. Minister for Industries, Commerce & Investment | Chair |
| 2. Director General Research, Ayub Agriculture Research Institute, Faisalabad | Member |
| 3. Director General, (Ext. & AR), Department of Agriculture, Government of Punjab | Member |
| 4. Director General, Federal Seed Certification & Registration Department, Islamabad | Member |
| 5. Director, Nuclear Institute for Agriculture and Biology, Faisalabad | Member |
| 6. Director, National Institute for Biotechnology and Genetic Engineering, Faisalabad | Member |
| 7. Vice Chancellor, Muhammad Nawaz Sharif University of Agriculture, Multan | Member |
| 8. Vice President, Pakistan Central Cotton Committee | Member |
| 9. Dr. Tasawar H. Malik, Director Research, Pakistan Central Cotton Committee, Multan | Member |
| 10. Dr. Kauser Abdullah, Agricultural Scientist, Director ORIC FC College, Lahore | Member |
| 11. Mr. Javed Saleem Qureshi, Chairman, Four Brothers Group | Member |
| 12. Syed Hassan Raza, CEO, Neelam Seed | Member |
| 13. Dr. Khalid Hameed, Chairman, Tara Group Pakistan | Member |

The Terms and References of the Committee

- a) To recommend the methodology for DNA Fingerprinting.

- b) To visit, evaluate and recommend the laboratories for DNA Fingerprinting.
- c) To recommend the minimum standards for biochemical analysis/Bt. Purity analysis particularly for cotton crop.
- d) To visit, evaluate and recommend the laboratories for biochemical analysis/Bt. Purity analysis.
- e) To make recommendation regarding nomenclature & registration/approval of exotic material.

The chair constituted the following Green Revolution 2.0 Committee for transformation of seeds industry.

1. Minister for Industries, Commerce & Investment	Chair
2. Prof. Dr. Iqrar Ahmed Khan, Vice Chancellor, University of Agriculture, Faisalabad	Member
3. Dr. Muhammad Asif Ali, Vice Chancellor, Muhammad Nawaz Sharif University of Agriculture, Multan	Member
4. Mr. Arif Nadeem, CEO, Pak Agriculture Coalition	Member
5. Dr. Ehsan Rana, Tareen Farms, Lodhran	Member
6. Mr. Javed Saleem Qureshi, CEO, Four Brothers Group	Member
7. Syed Hassan Raza, CEO, Neelum Seed	Member
8. Mr. Shehzad Malik, CEO, Guard Agriculture Research & Services (Pvt) Ltd.	Member
9. Dr. Javed Hassan, Cotton Advisor, All Pakistan Textile Mills Association	Member
10. Mr. Muhammad Nawaz Khan, Director General Research, Ayub Agricultural Research Institute, Faisalabad	Member
11. Dr. Muhammad Anjum Ali, Director General (Extension & AR), Department of Agriculture, Government of Punjab	Member
12. Dr. Mehmoob-ur-Rehman, Deputy Chief Scientist, National Institute of Biotechnology and Genetic Engineering	Member

The Terms and References of the Committee are as under:

- i. To identify the challenges and bottlenecks faced by the agriculture sector
- ii. To identify the structural issues in agricultural market structure
- iii. To propose solutions to these challenges



iv. Any relevant matter with the permission of the Chair

“The meeting ended with the vote of thanks to and from the Chair”

A handwritten signature in black ink, consisting of a stylized 'A' followed by a large circular flourish.

Annexure "A"**PARTICIPANTS OF THE 56th MEETING OF THE PUNJAB SEED COUNCIL HELD ON 24-03-2023 AT AGRICULTURE HOUSE 21 DAVIS ROAD, LAHORE**

Sr#	Name & Designation / Department	Status
1	Mr. S.M Tanveer, Honourable Minister for Industries, Commerce & Investment	Chairman
2	Mr. Shan Ul Haq, Managing director, Punjab Seed Corporation	Member/Secretary
3	Mrs. Syeda Kulsoom Haye, Special Secretary Agriculture on behalf of Secretary Agri. Punjab	Member
4	Mr. Abdul Hayee, Regional Director FSC&RD	Member
5	Mr. Aslam Javaid, PSW P&D Board	Member
6	Mr. Jawed Saleem Qureshi, Four Brothers Group, Lahore	Breeder
7	Mr. Muhammad Nawaz Khan, DG Agri. (Research) Punjab, AARI, Faisalabad	Member
8	Dr. Muhammad Anjum Ali, DG Agri.(Ext & AR) Punjab	Member
9	Mr. Bilal Israel Khan, Grower Member	Member
10	Dr. Muhammad Javed Hassan, APTMA, Islamabad	Member
11	Mr. Daniyal Jawed Qureshi, Four Brothers Group, Lahore	Breeder
12	Dr. Muhammad Yousaf Saleem, Director NIAB, Faisalabad	Member
13	Mr. Muhammad Riaz, Chief Scientist, Oilseeds Research Institute, Faisalabad	Breeder
14	Dr. Javed Ahmad, Chief Scientist, Wheat Research Institute, Faisalabad.	Breeder
15	Dr. Syed Ijaz-Ul-Hussain, Principal Scientist, Potato Research Institute, Sahiwal	Breeder
16	Dr. Mehboob-Ur-Rehman, DCS NIBGE, Faisalabad	Member/Breeder
17	Dr. Khalid Hussain, Principal Scientist t AZRI, Bhakkar,	Breeder
18	Mr. Muhammad Saeed, Senior Scientist, MMRI, Yousafwala, Sahiwal	Breeder
19	Mr. Aamir Ghani, Senior Scientist, MMRI, Yousafwala, Sahiwal	Breeder
20	Dr. Muhammad Arif, DCS NIBGE, Faisalabad	Breeder
21	Mr. Javed Abdullah, Saim Seed Services, Jahanian	Breeder
22	Mr. Anjum Javed, Saim Seed Services, Jahanian	Breeder
23	Mr. Muhammad Rafiq, Saim Seed Seviles, Jahanian	Breeder
24	Mian Muhammad Younas, Suncrop Group	Breeder
25	Dr. Dil Baugh Muhammad, Suncrop Pesticide, Multan	Breeder
26	Syed Sultan Ali, Chief Scientist, RRI, Kala Shah Kaku	Breeder
27	Dr. Syed Ijaz-Ul-Husain, Fatima Sugar Mill	Breeder
28	Dr. Zahid Mahmood, Cotton Commissioner CCRI, Multan	Observer
29	Dr. Muhammad Naveed Afzal, CCRI, Multan	Breeder
30	Dr. Khalid Hameed, Chairman, Tara Group	Breeder
31	Dr. Sajid-Ur-Rehman, Chief Scientist, AARI, Faisalabad	Breeder
32	Dr. Ghulam Sarwar, Principal Scientist, CRI, Multan	Breeder
33	Mr. Abdul Ghaffar Grewal, Principal Scientist, MRI, Multan	Breeder
34	Dr. Saeed Ahmad, Chief Scientist, CRI, Multan	Breeder
35	Dr. Saghir Ahmad, Chief Scientist, Tara Group	Breeder
36	Dr. Abdul Rasheed, Guard Group	Breeder
37	Syed Zia-Ul-Hassan, Principal Scientist Head, HFRS, Murree	Breeder



38	Dr. Muhammad Afzal, Principal Scientist, HRI, Faisalabad	Breeder
39	Dr. Qamar Shahid, Senior Scientist, FRSS, AARI, Faisalabad	Breeder
40	Dr. Faheem Khan, Senior Scientist, RARI, Bahawalpur	Breeder
41	Dr. Khalid Muhammad, Principal Scientist, RARI, Bahawalpur	Breeder
42	Mr. Muhammad Ikhtlaq, Principal Scientist, Bahawalpur	Breeder
43	Mr. Muhammad Raza Salik, Senior Scientist, CRI, Sargodha	Breeder
44	Dr. Peer Muhammad Idrees Khan, HOD, P&G, CCRI, Multan	Breeder
45	Dr. Muhammad Akhtar, Chief Scientist, PRI, Faisalabad	Breeder
46	Dr. Muhammad Aslam, Chief Scientist, FRI, Sargodha	Breeder
47	Mrs. Anumm Ishaque, Assistant Director Coord, PSC	-
48	Mr. Ahmad Hussain Cheema, Senior Scientist, FRI, Sargodha	Breeder
49	Mr. Ghulam Ahmad, Senior Scientist, FRI, Sargodha	Breeder
50	Dr. Maqsood Qamar, NARC, Wheat Islamabad	Breeder
51	Dr. Muhammad Zahid Rashid, Senior Officer HRT, Faisalabad	Breeder
52	Dr. Zia-UI-Qamar, NIAB, Faisalabad	Breeder
53	Dr. Muhammad Kashif Riaz Khan, DCS, NIAB, Faisalabad	Breeder
54	Dr. Mahmood-UI-Hassan, Principal Scientist, NIAB, Faisalabad	Breeder
55	Mr. Shujat Ullah Malik, Four Brothers	Breeder
56	Dr. Amir Shakeel, Associate Professor	Breeder
57	Dr. Azeem Iqbal Khan, Professor UAF	Breeder
58	Dr. Asif Saeed, Associate Professor, UAF	Breeder
59	Dr. Arfan Ali, Scientist	Breeder
60	Dr. Irfan Afzal, Associate Professor, UAF	Breeder
61	Dr. Muhammad Irshad, Senior Scientist, AZRI, Bhakkar	Breeder
62	Mr. Asrar Mahboob, MMRI, Yousafwala, Sahiwal	Breeder
63	Mr. Mubashir Akhtar, HRI, Faisalabad	Breeder
64	Mr. Amir Latif Senior Officer, VRI, AARI, Faisalabad	Breeder
65	Mr. Kashif Nadeem, Senior Scientist, VRI, AARI, Faisalabad	Breeder
66	Mr. Mahmood Ahmad, BP&RD, Manager, Pepsi Cola	Breeder
67	Dr. Muhammad Sabar, Senior Scientist, RRI, Kala Shah Kaku	Breeder

