Second Reporting Cycle

Report on the implementation of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

PAKISTAN

(21 May 2021)
Online Reporting System on Compliance of the International Treaty on Plant Genetic Resources for Food and Agriculture

Pursuant to Article 21 of the Treaty, the Governing Body approved, at its Fourth Session, the Compliance Procedures that include, among others, provisions on monitoring and reporting: Resolution 2/2011.

According to the Compliance Procedures, each Contracting Party is to submit to the Compliance Committee, through the Secretary, a report on the measures it has taken to implement its obligations under the Treaty. This Online Reporting Systems facilitates the submission of such information in electronic format.

Should you need any additional information regarding the reporting on compliance or the use of the online system, please visit the Treaty’s Website or contact the Secretariat at PGRFA-Treaty@fao.org.
Additional Reporting Information

Name and contact of the reporting officer

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Institution(s) of affiliation

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Article 4: General Obligations

1. Are there any laws, regulations procedures or policies in place in your country that implement the Treaty?
   Please select only one option
   ☑ Yes
   ☐ No

1A. If your answer is 'yes', please provide details of such laws, regulations, procedures or policies:
   ››› For germplasm exchange SMTA is implemented.

2. Are there any other laws, regulations, procedures or policies in place in your country that apply to plant genetic resources?
   Please select only one option
   ☑ Yes
   ☐ No

2A. If your answer is 'yes', please provide details of such laws, regulations, procedures or policies:
   ››› Plant Breeder’s Rights Act 2016

3. Is there any law, regulation, procedure or policy in place in your country that needs to be adjusted / harmonized to ensure conformity with the obligations as provided in the Treaty?
   Please select only one option
   ☑ Yes
   ☐ No

3A. If your answer is 'yes', please provide details of such adjustments and any plans to make those adjustments:
   ››› ABS needs to be implemented through legislations.
Article 5: Conservation, Exploration, Collection, Characterisation, Evaluation and Documentation of Plant Genetic Resources for Food and Agriculture

4. Has an integrated approach to the exploration, conservation and sustainable use of plant genetic resources for food and agriculture (PGRFA) been promoted in your country?

Please select only one option
☐ Yes
☒ No

5. Have PGRFA been surveyed and inventoried in your country?

Please select only one option
☒ Yes
☐ No

5A. If your answer is 'yes', please provide details of your findings, specifying species, sub-species and/or varieties, including those that are of potential use.

>>> Four projects have been completed including CWR project (203 accessions), MAPs project (102 accessions), heirloom crops (800 accessions) and wild edible and ornamental plants (100 species).

5B. If your answer is 'no', please indicate:

Any difficulties encountered in surveying or inventorying PGRFA;
Any action plans to survey and inventory PGRFA;
The most important PGRFA that should be surveyed and inventoried

6. Has any threat to PGRFA in your country been identified?

Please select only one option
☒ Yes
☐ No

6A. If your answer is 'yes', please indicate:

The species, subspecies and/or varieties subject to such threats;
The sources (causes) of these threats;
Any steps taken to minimise or eliminate these threats;
Any difficulties encountered in implementing such steps;

>>> The species, subspecies and/or varieties subject to such threats;
The sources (causes) of these threats;
urbanization, climate change, over harvesting and over grazing.
Any steps taken to minimize or eliminate these threats;
Germplasm collected for some species.
Any difficulties encountered in implementing such steps;
Some species are threatened but there are no resources for addressing the threats and challenges

7. Has the collection of PGRFA and relevant associated information on those plant genetic resources that are under threat or are of potential use been promoted in your country?

Please select only one option
☐ Yes
☒ No

7A. If your answer is 'yes', please provide details of the measures taken:

>>> Four projects have been executed including CWR project, MAPs project, heirloom crops and wild edible and ornamental plants.

8. Have farmers and local communities' efforts to manage and conserve PGRFA on-farm been promoted or supported in your country?

Please select only one option
☐ Yes
8A. If your answer is 'yes', please provide details of the measures taken:

9. Has in situ conservation of wild crop relatives and wild plants for food production been promoted in your country?
   Please select only one option
   ☐ Yes
   ☑ No

9A. If your answer is 'yes', please indicate whether any measures have been taken to:
   ☐ Promote in situ conservation in protected areas
   ☐ Support the efforts of indigenous and local communities

9B. If such measures have been taken, please provide details of the measures taken:

10. Are there any ex situ collections of PGRFA in your country?
    Please select only one option
    ☑ Yes
    ☐ No

10 A. If your answer is 'yes', please provide information on the holder and content of such collections:
    »• National Genebank of Pakistan at Bioresources Conservation Institute, PARC National Agricultural Research Centre, Islamabad, Pakistan. It contains 41000 accessions of cereal, legume, oilseed, vegetable, fodder & forages, CWR, MAPs, etc
    Living germplasm is being maintained at the following institutes
    • Pakistan Forest Institute, Peshawar
    • Citrus Research Institute, Sargodha
    • Mango Research Station, Multan
    • Datepalm Research Institute, Khairpur
    • Central Cotton Research Institute, Multan
    • Multiple fruits at PARC-HRI, Islamabad
    • Multiple forest and forage species at PARC-TRMI, Islamabad
    • Botanical conservatory at PARC-NHP, Islamabad

11. Has the development of an efficient and sustainable system of ex situ conservation of PGRFA been promoted in your country?
    Please select only one option
    ☑ Yes
    ☐ No

11A. If your answer is 'yes', please indicate the measures taken to promote ex situ conservation, in particular any measures to promote the development and transfer of technologies for this purpose:
    »• Already mentioned in No.10

12. Has the maintenance of the viability, degree of variation, and the genetic integrity of ex situ collections of PGRFA been monitoring in your country?
    Please select only one option
    ☑ Yes
    ☐ No

12A. If your answer is 'yes', please provide details of the main conclusions of these monitoring activities
    »• Seed viability is monitored through germination test.

13. Has your country cooperated with other Contracting Parties, through bilateral or regional channels, in the conservation, exploration, collection, characterization, evaluation or documentation of PGRFA?
    Please select only one option
    ☑ Yes
    ☐ No

13A. If your answer is 'yes', please indicate the other Contracting Parties with whom the cooperation was undertaken (where additional to cooperation through the Governing Body or Treaty mechanisms) and, where possible, details of any relevant projects:
Article 6: Sustainable Use of Plant Genetic Resources for Food and Agriculture

14. Are there any policy and legal measures in place in your country that promote the sustainable use of PGRFA?

Please select only one option
☑ Yes
☐ No

14A. If your answer is 'yes', please indicate whether such policy and legal measures include:

☐ Pursuing fair agricultural policies that promote the development and maintenance of diverse farming systems that enhance the sustainable use of agricultural biological diversity and other natural resources;
☐ Strengthening research that enhances and conserves biological diversity by maximizing intra- and inter-specific variation for the benefit of farmers;
☑ Promoting plant breeding efforts, with the participation of farmers, that strengthen the capacity to develop varieties particularly adapted to social, economic and ecological conditions, including in marginal areas;
☐ Broadening the genetic base of crops and increasing the range of genetic diversity available to farmers;
☐ Promoting the expanded use of local and locally adapted crops, varieties and underutilised species;
☐ Supporting the wider use of diversity of varieties and species in on-farm management, conservation and sustainable use of crops and creating strong links to plant breeding and agricultural development;
☐ Reviewing and adjusting breeding strategies and regulations concerning variety release and seed distribution.

14B. If such policy and legal measures are in place, please provide details of the measures taken and any difficulties encountered in implementing them:

>>> Approved & implemented Plant Breeder’s Rights Act.
Article 7: National Commitments and international Cooperation

15. Has the conservation, exploration, collection, characterization, evaluation, documentation and sustainable use of PGRFA been integrated into your country’s programmes and policies?

Please select only one option
☑ Yes
☐ No

15A. If your answer is ‘yes’, please provide details of the integration of such activities:
☑ Conservation
☑ Exploration
☑ Collection
☑ Characterization
☑ Evaluation
☑ Documentation
☐ Sustainable Use

Please indicate into which type of programmes and policies:
☐ Agriculture and rural development
☑ Food security
☐ Biodiversity conservation
☐ Climate change
☐ Other

Additional details:
>>> Above activities are being conducted in coordination with the National Agriculture Research System.

16. Has your country cooperated with other Contracting Parties, through bilateral or regional channels, in the conservation and sustainable use of PGRFA?

Please select only one option
☑ Yes
☐ No

16A. If your answer is ‘yes’, please indicate whether the aim of such cooperation is to:
☑ Strengthen the capability of developing countries and countries with economies in transition with respect to conservation and sustainable use of PGRFA
☑ Enhance international activities to promote conservation, evaluation, documentation, genetic enhancement, plant breeding, seed multiplication, and sharing, providing access to and exchanging PGRFA and appropriate information and technology, in conformity with the Multilateral System of Access and Benefit-Sharing under the Treaty

16B. If, in addition to cooperation through the Governing Body or other Treaty mechanisms, your country has cooperated with other Contracting Parties directly or through FAO and other relevant international organizations, please indicate such other Contracting Parties and, where possible, details of any relevant projects:

>>> • Development of joint regional projects for PGRFA conservation and utilization.
• Establishment of safety duplication regionally.
Article 8: Technical Assistance

17. Has your country promoted the provision of technical assistance to developing countries and countries with economies in transition, with the objective of facilitating the implementation of the Treaty?

*Please select only one option*

☐ Yes
☑ No
☐ Not applicable

17A. If your answer is 'yes', please provide details of the measures taken

☐ Exchange of information
☐ Access to and transfer of technology
☐ Capacity building

Please explain:

>>> Participated in trainings.

18. Has your country received technical assistance with the objective of facilitating the implementation of the Treaty?

*Please select only one option*

☑ Yes
☐ No
☐ Not applicable

18 A. If your answer is 'yes', please provide details of such technical assistance:

☐ Exchange of information
☐ Access to and transfer of technology
☑ Capacity building

Please explain:

>>> Participated in trainings.
Article 9: Farmers' Rights

19. Subject to national law, as appropriate, have any measures been taken to protect and promote farmers' rights in your country?

Please select only one option
☑ Yes
☐ No

19 A. If your answer is 'yes', please indicate whether such measures were related to:
☐ Recognition of the enormous contribution that local and indigenous communities and farmers of all regions of the world have made and will continue to make for the conservation and development of plant genetic resources;
☐ The protection of traditional knowledge relevant to PGRFA
☐ The right to equitably participate in sharing benefit arising from the utilisation of PGRFA
☐ The right to participate in making decisions, at the national level, on matters related to the conservation and sustainable use of PGRFA
☑ Any rights that farmers have to save, use, exchange, and sell farm-saved seed/propagating material

19B. If such measures were taken, please provide details of the measures taken and any difficulties encountered in implementing them:

>>> Farmers' Rights are mentioned in Plant Breeders' Rights Act 2016.
Article 11: Coverage of the Multilateral System

20. Has your country notified all PGRFA listed in Annex I to the Treaty that are under the management and control of your Government and in the public domain as included in the Multilateral System of Access and Benefit-Sharing (MLS)?

Please select only one option

☐ All
☑ Partially
☐ None

20A. If your answer is 'all', please provide details of any difficulties encountered in including Annex 1 PGRFA in the MLS:

>>> 

20B. If your answer is 'partially', please provide details of:

- The extend to which Annex 1 PGRFA have been included in the MLS
- The crops that have been included in the MLS; and
- The difficulties encountered in including Annex 1 PGRFA in the MLS:

>>> Only PGRFA from the Genabank are in MLS.

20C. If your answer is 'none', please provide details of the difficulties encountered in including Annex 1 PGRFA in the MLS:

☐ Lack of guidelines for the identification and inclusion of material;
☐ There is no national genebank;
☐ Lack of catalogue of PGRFA in the country;
☐ Lack of specialised human resources;
☐ Limited economic resources and the need for capacity building;

Other, please explain:

>>> 

21. Has your country taken measures to encourage natural and legal persons within your jurisdiction who hold Annex 1 PGRFA to include those resources in the MLS?

Please select only one option

☐ Yes
☑ No

21A. If your answer is 'yes', please provide details of:

- The natural or legal persons within your jurisdiction that included Annex 1 PGRFA in the MLS;
- The crops that have been included in the MLS by these persons; and
- Any difficulties these persons encountered in including Annex 1 PGRFA in the MLS:

>>> 

21B. If your answer is 'no', please provide details, in particular details of any difficulties encountered in encouraging these persons to include Annex 1 PGRFA in the MLS:

>>> No assessment or survey conducted.
22. Has your country taken measures to provide facilitated access to Annex 1 PGRFA, in accordance with the conditions set out in Article 12.4 of the Treaty?

☐ Yes
☐ No

22A. If your answer is ‘yes’, please provide details of such measures:

>>> PGR conserved in the National Genebank of Pakistan is exchanged through SMTA.

22B. If your answer is ‘no’, please provide details of any difficulties encountered in providing facilitated access to Annex 1 PGRFA:

>>> 

23. Has facilitated access been provided in your country to Annex 1 PGRFA using the Standard Material Transfer Agreement (SMTA)?

☐ Yes
☐ No

23B. If your answer is ‘no’, please provide details of any difficulties encountered in providing facilitated access to Annex 1 PGRFA using the SMTA:

>>> 

24. Has the SMTA been used voluntarily in your country to provide access to non-Annex 1 PGRFA?

☐ Yes
☐ No

25. Does the legal system of your country provide an opportunity for parties to material transfer agreements (MTAs) to seek recourse in case of contractual disputes arising under such agreements?

☐ Yes
☒ No

25A. If your answer is ‘yes’, please provide details of the relevant laws, regulations or procedures:

>>> 

26. Does the legal system of your country provide for the enforcement of arbitral decisions related to disputes arising under the SMTA?

☐ Yes
☒ No

26A. If your answer is ‘yes’, please provide details of the relevant laws, regulations or procedures:

>>> 

27. Have there been any emergency disaster situations in respect of which your country has provided facilitated access to Annex 1 PGRFA for the purpose of contributing to the re-establishment of agricultural systems?

☐ Yes
☐ No

27A. If your answer is ‘yes’, please provide details of such emergency disaster situations and the Annex 1 PGRFA to which access was provided:

>>> Within the country.
Article 13: Benefit-sharing in the Multilateral System

28. Has your country made any information available regarding Annex I PGRFA?

Please select only one option
☑ Yes
☐ No

28A. If your answer is 'yes', please provide details of any information made available regarding Annex 1 PGRFA:
☑ Catalogues and inventories
☐ Information on technologies
☐ Results of scientific and socio-economic research, including characterisation, evaluation and utilisation
☐ Other

29. Has your country provided or facilitated access to technologies for the conservation, characterisation, evaluation and use of Annex I PGRFA?

Please select only one option
☑ Yes
☐ No

29A. If your answer is 'yes', please indicate whether your country:
☐ Has established or participated in crop-based thematic groups on utilisation of PGRFA
☑ Is aware of any partnerships in your country in research and development and in commercial joint ventures relating to the material received through the MLS, human resource development and effective access to research facilities.

Please provide details:
>>> Trainings were organized for capacity building of stakeholders.

30. Has your country provided for and/or benefitted from capacity building measures in respect of Annex 1 PGRFA?

Please select only one option
☑ Yes
☐ No

30A. If your answer is 'yes', please indicate whether such measures were related to:
☑ Establishing and/or strengthening programmes for scientific and technical education and training in conservation and sustainable use of PGRFA;
☐ Developing and strengthening facilities for conservation and sustainable use of PGRFA;
☑ Carrying out scientific research and developing capacity for such research.

30B. If your country provided for and/or benefitted from such measures, please provide details:

>>> Awareness was raised about ITPGRFA and ABS through trainings and seminars.
Article 14: Global Plan of Action

31. Has your country promoted the implementation of the Global Plan of Action for the Conservation and Sustainable Use of Plant Genetic Resources for Food and Agriculture?

Please note that this question differs from question 15 as it only concerns Annex I PGRFA and is more specific. Please select only one option
☑ Yes
☐ No

31A. If your answer is 'yes', please indicate whether the implementation of the plan was promoted through:
☑ National actions
☐ International cooperation
☐ Other actions

Please provide details:
>>> Seminars and workshops.
Article 15: Ex Situ Collections of Plant Genetic Resources for Food and Agriculture held by the International Agricultural Research Centres of the Consultative Group on International Agricultural Research and other International Institutions

32. Has facilitated access to Annex I PGRFA been provided in your country to the International Agricultural Research Centres of the Consultative Group on International Agricultural Research (IARCs) or other international institutions that have signed agreements with the Governing Body of the Treaty?

*Please select only one option*

☑ Yes
☐ No

32A. If your answer is 'yes', please indicate:

To which IARCs or other international institutions facilitated access was provided;
The number of SMTAs entered into with each IARC or other international institution:

››› MSBP-Kew
Svalbard Global Seed Vault
IRRI

32B. If your answer is 'no', please provide details of any difficulties encountered in providing facilitated access to Annex 1 PGRFA to IARCs and other international institutions that have signed agreements with the Governing Body of the Treaty:

33. Has access to non-Annex I PGRFA been provided in your country to IARCs or other international institutions that have signed agreements with the Governing Body of the Treaty?

*Please select only one option*

☑ Yes
☐ No

33A. If your answer is 'yes', please indicate:

To which IARCs or other international institutions access was provided;
The number of MTAs entered into with each IARC or other international institution:

››› MSBP-Kew
Svalbard Global Seed Vault

33B. If your answer is 'no', please provide details of any difficulties encountered in providing access to non-Annex 1 PGRFA to IARCs and other international institutions that have signed agreements with the Governing Body of the Treaty:
Article 16: International Plant Genetic Resources Networks

34. Has your country undertaken any activities to encourage government, private, non-governmental, research, breeding and other institutions to participate in the international plant genetic resources networks?

Please select only one option
☑ Yes
☐ No

34A. If your answer is 'yes', please provide details of such activities:
>>> Capacity building/HRD
Article 18: Financial Resources

35. Has your country provided financial resources for national activities for the conservation and sustainable use of PGRFA?

*Please select only one option*
☑ Yes
☐ No

35A. If your answer is ‘yes’, please provide the estimated amount of funds provided during the last five years, including government resources:

>>> 50 million PKR

35B. Please indicate if your country has developed a strategy or other measures to enhance the availability, transparency, efficiency and effectiveness of the provision of financial resources to implement the International Treaty:

>>> Strong finance and account system with external audit exists that ensure transparency and efficiency.

36. Has your country provided financial resources for the implementation of the International Treaty?

*Please select only one option*
☐ Yes
☑ No

36A. If your answer is ‘yes’, where possible, please provide details of such channels and the amount of the financial resources involved during the last 5 years:

>>> 36B Channel:
☐ Bilateral
☐ Regional
☐ Multilateral

36C. Please provide details:

>>> 37. Has your country received financial resources for the implementation of the International Treaty?

*Please select only one option*
☐ Yes
☑ No

37A. If your answer is ‘yes’, where possible, please provide details of such channels and the amount of the financial resources involved during the last 5 years:

>>> 37B. Channel:
☐ Bilateral
☐ Regional
☐ Multilateral

37C. Please provide details:

>>>
General remarks on the implementation of the ITPGRFA

38. You may use this box to share any advice you may have arising from your country’s experience with implementation of the Treaty:

>>> Improvement in policies, HRD and financial resources can advance implementation of the Treaty.

39. You may use this box to share any additional information that may be useful to provide a broader perspective of difficulties in implementation of the Treaty:

>>> Lack of incentives including ABS.

40. You may use this box to share any additional information that may be useful to provide a broader perspective of measures that could help to promote compliance:

>>> Rectifying No. 39 and 40
About this reporting

41. Have you encountered any difficulties in completing this reporting format?

Please select only one option

☐ Yes
☒ No

41A. If your answer is 'yes', please provide details on such difficulties:

>>> 

41B. If you have suggestions for improvement of this reporting format, please share them:

>>>