Directorate General of Science & Technology,
Government of Khyber Pakhtunkhwa
First Floor Midway Building Shami Road Peshawar Cantt
Phone: +92 919216580 **Email:** info@dost.kp.gov.pk

International Technology Transfer and R&D Linkages Support

The International Technology Transfer Program aims to facilitate the transfer, indigenization, adaptation, localization, and deployment of impactful technologies from international sources in Khyber Pakhtunkhwa. The program focuses on bringing proven technologies to the province, adapting them to local requirements and conditions, developing local capabilities for their operation and maintenance, and enabling their commercial or public-sector deployment for revenue generation, import substitution, productivity enhancement, and socio-economic development.

Proposal Format

Proposal Reference No. (for office use only)	

I. APPLICANT'S INFORMATION

Title of Project:	
Duration of Project:	In months
Total Budget Requested	PKR million

Primary Applicant Name	
Primary Applicant Domicile	
Mailing Address	Street Address
	City
	Country
Primary Applicant Representative	Name
	Position/Title
	Department

	Tel. # (Office/Mobile)
	Email
	CNIC/Passport No.

Primary Industry Partner Representative (local)	Name
	Company/Organization
	Position/Title
	Tel. # (Office/Mobile)
	Email

Select the most relevant one of the 8+3 priority/thematic areas identified under the Khyber Pakhtunkhwa Science Agenda.	o Advanced Material o Biomedicine and Bio-manufacturing o Space Sciences o Gemstone o Bees& Honey o Fisheries o Herbs/Medicine Plants o Fruits & Vegetables o Archeology o Urban Development o Micro hydro plants

II. EXECUTIVE SUMMARY

The Executive Summary (limited to one page) provides an overview of the proposed technology transfer project. It should clearly identify the Source Technology / Technology to be Transferred, the anticipated commercial application, the potential customer and the benefits to the customer and society. The Executive Summary should NOT include confidential information, but should provide the Evaluator with sufficient information to understand the potential impact of the technology on the marketplace. The broad project objective should be briefly described, as well as the activities to be undertaken to achieve the project goals. In addition, the roles of partners – in particular those from the commercial sector[1]– that will contribute to the success of the proposed project should be identified.Please provide the following;

Name of technology	
Technology owner/developer	
Country of origin	
International company/university/R&D organization	
Technology readiness level/status	
Existing commercial deployment	
Existing customers/users	
Existing patents/IP, if applicable	
Evidence that the technology is proven	
Why the technology is suitable for KP	
What components/processes will be transferred	
What will be indigenized/localized	
What will be developed locally	
Proposed local deployment	

III. THE COMMERCIAL APPLICATION, AND THE SOCIO-ECONOMIC POTENTIAL OF THE PROPOSED TECHNOLOGY TRANSFER SUPPORT FUND PROJECT ON THE MARKET

In this Section (maximum two pages), the Commercial Application to be addressed by the proposed technology transfer project should be clearly identified.

IV. THE PROJECT TEAM AND INTERNATIONAL PARTNERS

In this Section (maximum two pages narrative, plus Table as indicated below), describe the role of the primary applicant team, the industry partner and international partners for the proposed Technology transfer project.

Identify the skills that each key collaborator possesses, and describe their anticipated role in the project.

Describe in some detail how the academic team will collaborate with the industry/sectoral partners.

Indicate how the industry/sectoral partners will advance the technological innovation to bring it to market. How much time will the industry/sectoral partners devote to the project?

TABLE: Project Team and International Partners

All confirmed participants should be identified in this Table. Up to three (3) Letters of Commitment may be attached to the proposal. The primary industry/sectoral partner MUST submit a Letter of Commitment. ALL Letters of Commitment must contain a detailed co-financing commitment.
All confirmed Academic Collaborators (if any) should be identified in this Table

Company/Organization Name	
Location	
Name of Collaborator	Position/Title
Tel. #	Email
Anticipated Contribution to Project Goals	
Anticipated Annual Financial Contribution	
Company/Organization Name	
Location	
Name of Collaborator	Position/Title
Tel. #	Email
Anticipated Contribution to Project Goals	
Anticipated Annual Financial Contribution	
Company/Organization Name	
Location	
Name of Collaborator	Position/Title
Tel. #	Email
Anticipated Contribution to Project Goals	
Anticipated Annual Financial Contribution	
Company/Organization Name	
Location	
Name of Collaborator	Position/Title
Tel. #	Email
Anticipated Contribution to Project Goals	

Anticipated Financial Contribution

V. PROJECT DESCRIPTION

In this Section (maximum six pages, including Tables and Figures), describe in detail the proposed International Technology Transfer, Indigenization, Adaptation, and Local Deployment Project. The proposal should clearly demonstrate how the identified international technology will be transferred to Khyber Pakhtunkhwa, adapted to local requirements, indigenized where feasible, validated with prospective users, and deployed for commercial, industrial, public-sector, or socio-economic benefit.

1. Technology Overview and Problem Statement

Clearly describe the technology proposed for international transfer, including its origin, technology owner/developer, current status, existing applications or deployments, and the problem or critical need it addresses.

Explain:

- What problem or unmet need does the technology address?
- Why is this technology relevant to Khyber Pakhtunkhwa?
- What evidence demonstrates that the technology is proven, effective, or commercially viable?
- What are the limitations of existing technologies or solutions available locally?
- Why is international technology transfer a suitable approach to address the identified need?

Provide a brief review of the relevant state of the art and existing commercial solutions, and clearly explain the advantages of the proposed technology over existing alternatives.

2. Technology Transfer and International Collaboration

Describe the proposed mechanism for acquiring and transferring the technology from the international technology owner/developer to the applicant and local partners.

Clearly identify:

- International technology owner/developer and partner organization;
- Technology transfer mechanism, such as licensing, technical collaboration, know-how transfer, joint development, or other appropriate arrangement;
- Scope of technology, knowledge, processes, designs, software, equipment, or know-how to be transferred;
- Technical assistance, training, and knowledge transfer to be provided by the international partner;
- Intellectual property ownership, licensing, confidentiality, and other relevant legal considerations; and
- Roles and responsibilities of the international partner, applicant team, local industry partner, and other stakeholders.

3. Technology Adaptation, Indigenization and Localization

Describe in detail how the transferred technology will be adapted to the technical, environmental, economic, regulatory, and operational requirements of Khyber Pakhtunkhwa.

Clearly identify:

- Components, processes, or technologies that will be transferred without modification;
- Components, processes, or systems requiring local adaptation;
- Components or subsystems that can be indigenized or locally manufactured;
- Local materials, suppliers, expertise, and infrastructure that can be utilized;
- Skills and technical capabilities that need to be developed locally;
- Expected level of local content or localization; and
- Activities required to achieve successful indigenization and localization.

Explain how the proposed activities will reduce dependence on imported technology, components, products, or services, where applicable.

4. Local Deployment and Commercialization Plan

Describe how the transferred and adapted technology will be deployed in Khyber Pakhtunkhwa.

Identify:

- Proposed pilot/deployment sites;
- Target users, customers, or beneficiary organizations;
- Number and type of proposed deployments;
- Local industry/implementation partner and its responsibilities;
- Installation, commissioning, operation, and maintenance arrangements;
- User training and capacity-building requirements;
- Customer/user validation activities;
- Commercialization and scale-up strategy; and
- Post-project sustainability and deployment plan..

5. Market Validation and Customer Demand

Provide evidence demonstrating the market need, readiness, and potential demand for the transferred technology.

Describe:

- Target market and customer segments;
- Estimated market size in Khyber Pakhtunkhwa and, where relevant, Pakistan;
- Existing competing technologies and solutions;
- Expected cost and pricing of the proposed technology;
- Customer needs and willingness to adopt/pay;
- Market research, surveys, interviews, focus group discussions, pilot testing, or other validation activities undertaken or proposed; and
- Prospective customers/end users and their expected requirements.

Where available, attach Letters of Intent (LOIs), expressions of interest, or other documentary evidence from prospective customers/end users demonstrating demand for the technology.

Note: Proposals that do not adequately address the required questions, fail to provide sufficient evidence for evaluation, or exceed the established page limit may not be considered by the Directorate General of Science & Technology and may be returned without review.

VI. IMPLEMENTATION TIMELINE

The Implementation Timeline is designed to provide a high-level overview of the planned activities of the proposed project. Develop a Gantt Chart to demonstrate how the project will proceed in a timely fashion. Then, in the Table below, identify up to five major tasks and deliverables planned for each month of the proposed project. In all aspects, disparate activities – for example research, market development, commercialization - should link together to result in a coherent workplan that achieves the objectives of the proposed project.

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12 months
Major Tasks and Deliverables
Sample deliveables 1. Technology transfer 2. Technical adaptation 3. Indigenization 4. Market validation 5. Regulatory approval 6. Pilot deployment 7. Customer validation 8. Commercialization

VII. PHYSICAL RESOURCES AND FACILITIES

In this Section (maximum one page), describe the physical resources and facilities that are available to the proposed project. Be sure to comment on how these resources and facilities will enable the work plan of the proposed project to be accomplished.

VIII. RISK MANAGEMENT STRATEGY

In this Section (maximum one page), describe the Risk Management Strategy that will be employed by the proposed project. First, consider the potential risks that could imperil the progress towards commercialization, and describe the strategy and process that will be used to minimize and address these risks.

Second, describe the strategy that will be used to identify, mitigate and address those unexpected risks that emerge during the project lifetime.

In both contexts, discuss how the Principal Investigator will work together with the industry/sectoral partners to implement the strategy.

IX. REGULATORY PLAN

Applicable laws/regulations	
Relevant regulatory authorities	
Certifications required	
Product standards	
Environmental requirements	
Import requirements	
Licensing requirements	
IP/legal requirements	
Expected approval timeline	

X. THE TECHNOLOGY ADDRESSES WHICH CRITICAL NEED AND REVENUE GENERATION POTENTIAL

Describe the critical need or problem addressed by the proposed technology and explain its relevance to Khyber Pakhtunkhwa.

Briefly describe:

1. The key problem and limitations of existing solutions;
2. How the proposed technology addresses the need;
3. Revenue-generation and commercialization potential;
4. Potential for import substitution and local value addition;
5. Expected economic benefits, including employment and productivity gains; and
6. The proposed business model and pathway to sustainable commercialization.

Where possible, provide quantitative estimates of revenue, import substitution, local content, customers, and economic impact.

XI MARKET SIZE CONSIDERATION

Describe the potential market for the proposed technology in Khyber Pakhtunkhwa and Pakistan.

Provide:

1. Target customers/end users and their estimated number;
2. Estimated market size and annual demand;
3. Existing competing technologies/products and their costs;
4. Evidence of customer need and market readiness;
5. Results of market surveys, interviews, pilot testing, or other validation activities; and
6. Potential customers and their willingness to adopt the technology.

Where available, attach Letters of Intent (LOIs) or Expressions of Interest from prospective customers/end users as evidence of market demand.

XII. OUTREACH AND COMMUNITY ENGAGEMENT PLAN

1. Who are the beneficiaries?
2. Which communities/sectors will be engaged?
3. What awareness activities will be conducted?
4. How will users be trained?
5. How will feedback be collected?
6. How will community/user feedback influence technology adaptation?
7. What outreach activities will occur after deployment?

XIII. PROPOSED PROJECT BUDGET

Head	**Amount (PKR)**
Technology acquisition/transfer/licensing	
Technical consultancy	
International technology partner engagement	
Training and knowledge transfer	
Localization/indigenization	
Prototype adaptation	
deployment	
Testing and certification	
Regulatory compliance	
IP/legal services	
Market validation	
Customer demonstrations	

Local manufacturing/assembly	
Travel	
Equipment	
Consumables	
Personnel	

Co-Financing

Partner	**Cash Contribution**	**In-kind Contribution**	**Total Contribution**	**% of Total Project Cost**

XIV. LIST OF REFERENCES

Proposals should follow accepted academic practice in citing references throughout the proposal. References should numbered sequentially, and listed separately as a required attachment to the proposal. References should be reported in a standard form, and include: the names of all authors; the article and journal title; book title; volume and page numbers; and year of publication. If available, a Digital Object Identifier (DOI) may be provided.

XV. REQUIRED ATTACHMENTS

1. Letter of Support (maximum two pages) from the University Vice-Chancellor/Head of the Institute/Organization/Company. The letter should: confirm the institutional commitment to the proposed project

2. Letters of Commitment (maximum two pages each)

    - From industry/sectoral collaborators (maximum 3 letters).
    - The letters should describe the how the collaborator will contribute to the proposed project goals. The letter must also describe how, and at what level, the collaborator will finance their participation in the proposed technology transfer project.

3. Affidavit for time commitment and honorarium of PI and Co-PIs by the respective Head of the (University (VC/ Rector) and the collaborating Institutions/ organizations).

4. Appointment letter from the PI & Co-PIs to confirm their affiliation with Universities and collaborating Institutions.

5. Last pay slip of PI and Co-PIs for finalizing the personnel cost in Budget.

6. Ethical Certificate duly signed by the Ethical Research Committee of Institute

7. Declaration Certificate duly signed and stamp by PI of research proposal, Director ORIC and Head of Institute

8. Signed and dated Curriculum Vitae of the following individuals:

    - Principal Investigator
    - The lead collaborator from the primary industry/sectoral partner
    - Up to three additional collaborators who will contribute to the proposed Project.
    - The CVs should be of a standard DGST form (maximum two pages) and include the following information:
        - Full Name
        - Position/Title
        - Institution
        - Professional Training/Education
        - Chronological List of Positions
        - List of up to five publications related to the proposed project, in standard citation format
        - List of up to five activities related to the proposed project. These activities may include: technology transfer activities; patents; current or previous grants; teaching; collaborations; leading workshops/conferences; community outreach or engagement; consulting; etc.

XVI. Declaration Certificate

It is hereby certified that:

a) PI is a full time regular faculty member/Employee of HEI/Organization or if is hired on contract, same is not less than project life/duration.
b) The university/Organization will spare the faculty members/employee from any teaching or administrative responsibilities against their time committed on the proposed project.
c) Equipment(s) demanded for the proposed project is / are not available in the University / Institute.
d) No portion of the proposed project has been submitted and /or funded by DGST or any other funding agency.
e) PI has never been blacklisted by DGST/Other funding agency.
f) PI is not executing any other project of DGST which is delayed.
g) Decision of DGST will be considered final and will not be challenged in a court of law.
h) The University/DAI will provide complete support and facilitation to the PI and his project team for the establishment & operation of the proposed project, if approved by DGST and funds awarded to the University/ DAI. Accordingly, the University/ DAI will provide necessary facilities for smooth execution of the project including land, building, space, laboratories, machinery, equipment, transport, amenities like utilities and other services.
i) The University/DAI/Organization will get clearance from DGST (Project Completion Certificate /Project Clearance Certificate (PCC)) in order to relieve the PI, for any reason e.g. for postdoc leave/EOL/study leave/ termination of job etc. if the proposed project is awarded by DGST.
j) The University/DAI/Organization will not replace the PI of the proposed project without getting prior permission from DGST in writing.

Signature of Principal Investigator
Name:
Designation:
Department:
University/ R&D Org Name

Signature with Stamp of Director (ORIC/Research Office)
Name:
Designation:
University/ R&D Org Name

Signature with Stamp of the Head of University/ R&D Org
(Vice-chancellor/Rector/Head)
Name:
University/ R&D Org Name:

Send your Proposal in hard copy to

Director General

Directorate General of Science and Technology Govt. of Khyber Pakhtunkhwa, Peshawar

First Floor Midway Building, Shami Road Peshawar Cantt.
Phone: +92 919216580 **Email:** info@dost.kp.gov.pk

Soft (scanned) copy of application form must be sent via email to the following email address Yousaf.dost.kp@gmail.com