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**प्लाज़्मा अनुसंधान संस्थान / INSTITUTE FOR PLASMA RESEARCH**

**Bhat, Gandhinagar**

**EXPRESSION OF INTEREST**

The Institute for Plasma Research wishes to collaborate with Indian Industries on an international collaboration project on plasma treatment of exhaust gas to be reviewed for funding by IGSTC, New Delhi. Interested parties may visit IPR's website-<http://www.ipr.res.in/hycontrol-eoi.html>

**EXPRESSION OF INTEREST**

**A – Generic information**

1. IPR is an aided Institute of the Department of Atomic Energy and is working on research in plasma science and technology. IPR has been developing plasma technologies specific to Industrial & societal requirements in areas such as environment, textiles, bio-medical, and other industrial sectors. One such area is use of atmospheric pressure plasma for exhaust gas treatment to reduce emissions.
2. Indo German Science & Technology Centre (IGSTC), New Delhi is an organization established by the Department of Science & Technology (DST), Govt. of India, New Delhi in collaboration with Federal Ministry of Education Research (BMBF), Germany. IGSTC promotes collaborative science & technology projects between India and Germany. IGSTC had floated a call for proposal (2+2) wherein at least 2 German organizations (1 German Research organization and 1 Germany Industry) and 2 Indian organizations (1 Indian research organization and 1 Indian Industry) will have to collaborate on selected theme areas. Details about the IGSTC 2+2 call can be found on their website [https://www.igstc.org/home/basic\\_guidelines\\_2019](https://www.igstc.org/home/basic_guidelines_2019).
3. IPR along with its German Collaborators had submitted a proposal on “Hybrid Plasma-Catalyst Converter Modules to Control Exhaust Emission” to IGSTC for funding. The proposal involved developing a prototype exhaust treatment system involving use of atmospheric pressure plasma and catalyst. IPR has the required expertise on plasma technology whereas the German collaborators have the expertise on ceramic catalyst technologies.
4. In the above proposal, the research organizations will work on performing research resulting in demonstrating performance of the novel concept on exhaust gases, while the Industry partner will have to develop a working prototype to demonstrate its feasibility.
5. IPR is looking forward to collaborating with an Indian Industry which has the required background and expertise to contribute to the proposed R&D activity.
  - a. ***The applicant industry should meet the following eligibility criteria:***
  - b. **The applicant Industry should have a valid DSIR recognition/certification.**
  - c. **The Industry should have experience in working on developing atmospheric pressure plasma/corona based technologies/devices and appropriate power sources. Appropriate supporting documents will be required to be submitted by the applicant.**
  - d. **The applicant industry should be willing to financially invest in the IGSTC project as per IGSTC norms.**

6. As per IGSTC norms, the eligible Indian Industry will get 50% of the proposed activities as financial grant, whereas the rest 50% will have to be borne by the Industry.
7. It may be noted that this EoI does not give any kind of assurance of any business or funds for collaboration. In event of IGSTC not considering funding the proposed project, this EoI shall be treated as cancelled.

## **B - HOW TO APPLY?**

Interested parties may fill up the following application form and submit the list of documents listed below:

1. Cover letter addressed to Director, IPR responding to the EoI specified here.
2. Duly signed application form (please see Annexure – A)
3. Copy of DSIR recognition certificate
4. Copy of company registration details (SSI/MSME/DIPP registrations as applicable, Certificate of Incorporation etc. and other govt. certifications if applicable)
5. Copy of PAN card
6. Copy of audited financial report of last 3 years.
7. List of installations/projects executed in the last 5 years. (this is just for information)
8. Brochures of the company and products
9. CV of promoters of the company.

The soft copies of the above documents may be sent by email (preferably combined as one PDF file) to [iprtt@ipr.res.in](mailto:iprtt@ipr.res.in) with a copy to [technology@ipr.res.in](mailto:technology@ipr.res.in).

The hard copy of documents in a sealed envelope super-scribing EXPRESSION OF INTEREST for participation in IGSTC collaborative project may be sent to:

Director  
Institute for Plasma Research  
Near Indira Bridge, Bhat,  
Gandhinagar – 382428 (Gujarat)

## **C – Processing of eligible bidders and selection**

The participants are induced to provide succinct and detailed information for the eligibility criteria listed above. In the course of processing the EOI bidders, the eligible participants will be provided with specific details on the collaboration details of the project with specific details on the technical and commercial requirements that the participant would be required to comply with. An evaluation basis will also be indicated for assessment, grading and selection of a suitable participant.

**APPLICATION FORM – EOI – HyCONTROL**

<b>S.No.</b>	<b>Particulars/Data required</b>	<b>Information</b>
01	Eoi reference	IPR/PTTS/ENQ/19-20/25
02	Name of applicant Industry	
03	Registered Address of Applicant Industry	
04	Contact nos. (Ph, Fax, Email)	Ph: Fax: Email:
05	Name of the MD/CMD of Co.	
06	Mobile No. & Email id of Director/MD/CMD	Mobile: Email:
07	Area of business	
08	Type of Industry	Proprietorship/Pvt. Ltd./Limited company
09	Annual Turnover (Rs.)	
10	DSIR recognition number & ref.	
11	DSIR recognition validity till	
12	List of documents attached with this application	1. 2. 3.
13	Signature with Name & Designation	
	Date:	