F.No. BTU/5GUseCase Labs/01

OFFICE MEMORANDUM

Sub: **Gradation Framework for 5G Use Case Labs Setup by DoT-reg**

The Department of Telecommunications has set up 100 5G Use Case Labs across educational institutions nationwide, aiming to achieve the following key deliverables:

i. At least 50 students and 10 faculty members utilizing the lab for testing and project development annually.

ii. Engagement of at least 5 start-ups/MSMEs for product testing and development each year.

iii. Development and testing of at least 10 products/solutions/IPs annually.

iv. Active contribution to the standardization process and efforts to integrate developed technologies into global standards.

v. Piloting, commercialization, and deployment of tested products in the field.

vi. Publication of at least two papers per year.

2. **Gradation of Labs**

To ensure the effective utilization of these 5G Use Case Labs, a Gradation Framework with 11 key parameters has been prepared. The labs will be evaluated based on the following Gradation Parameters:

Sl. No.	Parameter	Target	Score
1.	No. of students utilised Lab for product testing/ applications	50 unique students / year	1- 10 student – 1 point 11– 30 student – 2 points 31-50 students – 4 points > 50 students – 5 points
2.	No. of faculty utilised the lab for mentoring/ development/ testing	10 unique faculty / year	1- faculty – 1 point 2 – 5 faculty – 2 points

			6 - 10 faculty – 4 points
			> 10 faculty – 5 points
3.	No. of projects utilizing the Lab	10 projects / year	1- project – 1 point
			2 – 5 project – 2 points
			6 - 10 projects - 4 points
			> 10 projects – 5 points
4.	No. of start up / MSMEs engaged in the lab for testing/ product / use case development	5 Start up/ MSME / year	1 point / startup or MSME (max. 10 points)
5.	Engagement with Atal Tinkering Labs/ Schools/ colleges/ academic institutes (Workshops/ mentorship etc.)	5 institutes / year	1 point / institute (max. 10 points)
6.	No. of companies other than start-up/MSME/ Academic institutes engaged in the lab for testing/ product / use case development	5 companies or organisations / year	1 point / company (max. 10 points)
7.	Inclusion of 5G related academic course utilizing the Lab in the curriculum	Completion of the course for 50 students	2 point / 10 student (max. 20 points)
8.	Contributions related to 5G and beyond in International journals or Standardization organizations such as ITU/3GPP/ISO/IEEE/ ORAN alliance etc	2 Contributions/ year	5 points / contribution (max. 30 points)
9.	No. of product/ solutions/ use cases developed	2 products/ solutions/ use cases developed	10 point / product/solution/use case (max. 30 points)
10.	No. of IP generated	2 IPs in a year	10 point / IP (max. 30 points)
11.	No. of developed products/use cases in the Lab commercialised/ piloted/ deployed	1 product/ year	15 points each (max. 30 points)

3. **Ranking of Labs:**

The Labs will be ranked based on their total points in the following categories:

a. Excellent: > 130 points
b. Very Good: 101 – 130 points
c. Satisfactory: 81 – 100 points (with minimum 23 points from item number 1-5 of Gradation Framework in Para 2 above)

ii. All engagements and outcomes will be shared and made accessible through the **bharat5glab.gov.in** portal.

iii. The top 5 ranked institutes will be felicitated annually at the IMC or any other event designated by the DoT.

This is issued with the approval of competent authority.

(शुभम/SHUBHAM)
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To,

Heads of 100 institutes of 5G labs